

Hard TripleCross Puzzles

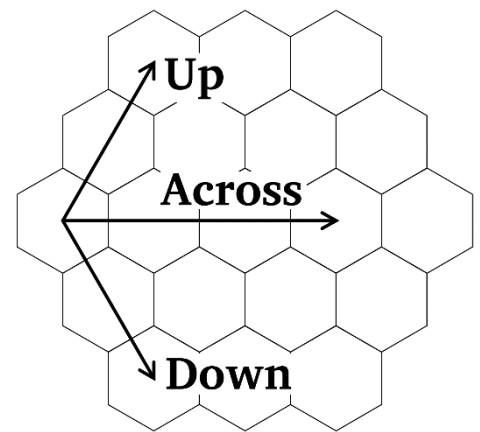
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Instructions

This puzzle is like a crossword, but with numbers. Each digit occupies a hexagonal cell and can be a part of a "word" in the across, up, and down directions.

Rules:

1. "Words" may not start with a zero.
2. "Words" in the 'across' direction read from left to right.
3. "Words" in the 'up' direction read along the upward diagonal to the right.
4. "Words" in the 'down' direction read along the downward diagonal to the right.
5. There is one unique solution which satisfies all the clues given below.



Some "words" may not have clues. They will be determined by the "words" which intersect them.

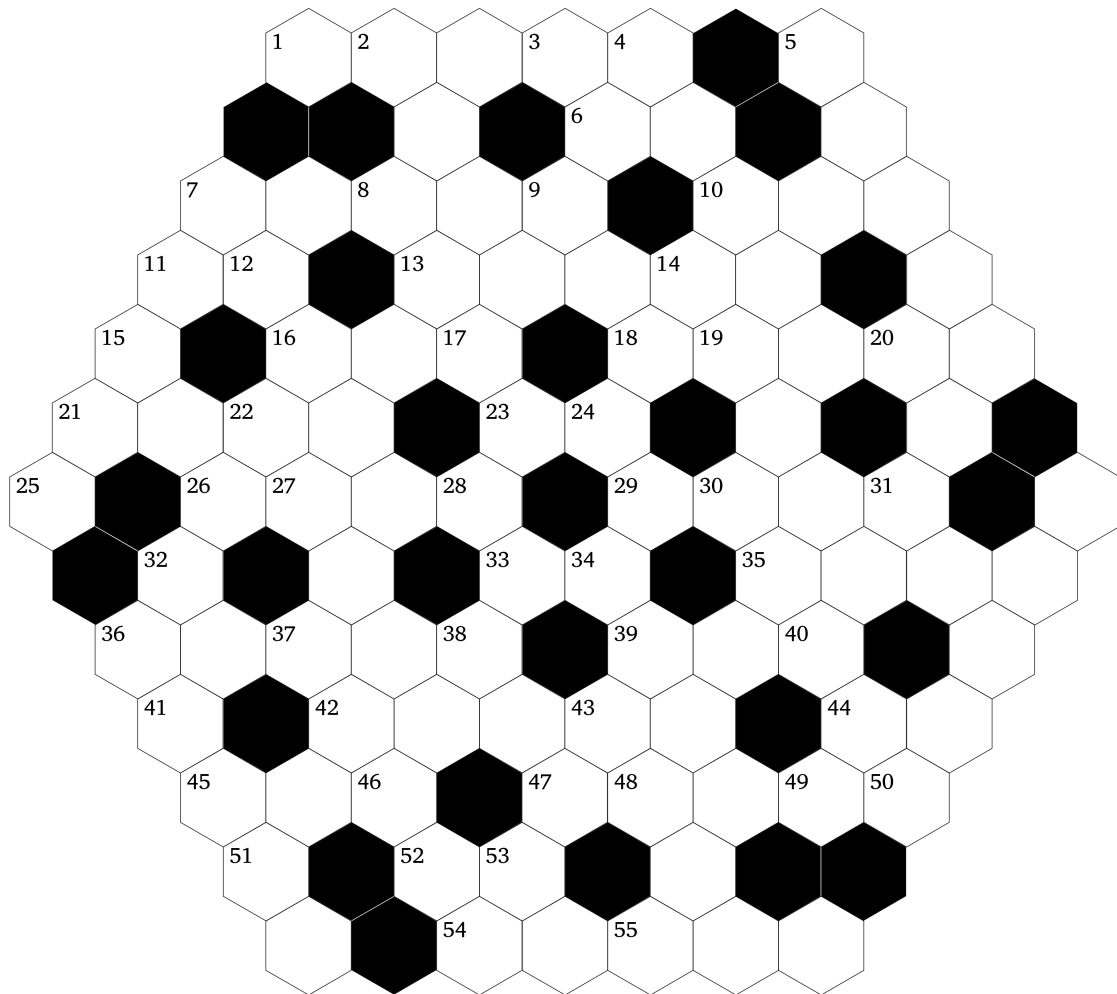
For More Puzzles

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About the Author

Neil Aggarwal loves puzzles. Sometimes he is solving an existing puzzle, sometimes he is figuring out how to create new ones. Computer programming is always a good source of puzzles. So is using a new ingredient or making a new recipe. Sometimes the puzzle is to figure out how to get his 4x4 vehicle across a challenging trail. Life is full of puzzles, and he enjoys all of them. He also loves spending time with his family, friends, and dogs -- who, at times, are puzzles too!

Puzzle 1



Across

- 1 Rearranged digits of 42 across
 6 28 up plus 52 across
 7 Last two digits are the same as last two digits of 42 across
 10 Half of 43 down, then subtract 29 across
 11 22 down divided by 8 down
 13 Three thousand three hundred fifteen less than 36 across
 16 15 down plus 32 down
 18 Seventy-four times a square

Up

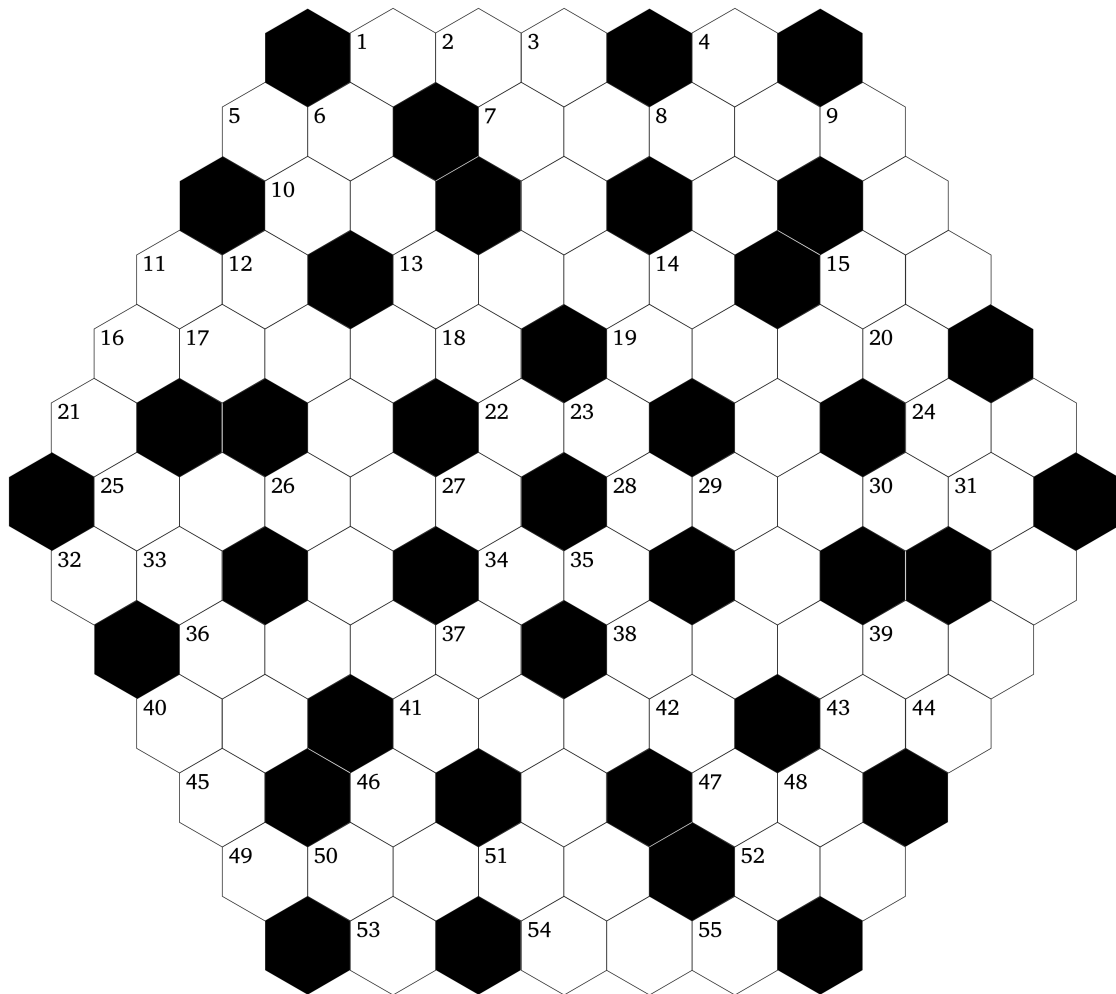
- 8 30 up divided by nine
 12 34 up minus 41 up
 17 Twice a prime number
 19 26 across minus 39 across
 20 Mean of 52 across and 8 up
 24 4 down divided by 24 down
 25 Eighty-eight times a prime number
 27 18 across plus 26 across

Down

- 2 Twenty-seven times a prime number
 3 11 across reversed
 4 Last three digits are the same as 9 down
 5 22 down minus 29 across
 7 Last two digits are the same as 49 up
 8 Three times a prime number
 9 45 across plus 41 up
 14 Eight times a prime number

- | Across (continued) | Up (continued) | Down (continued) |
|---|---|---|
| 21 Rearranged digits of 24 up | 28 10 across minus 30 up | 15 23 across times 24 down |
| 23 Two-fifths of 12 up | 30 28 down plus 39 across | 20 Twice the result of 30 up minus 39 across |
| 26 Three times a prime number | 34 6 across minus half of 3 down | 22 Fifteen thousand five hundred twenty-nine more than 7 down |
| 29 Forty-one times a prime number | 36 Twenty-three times a prime number | 24 33 across minus 34 up |
| 33 Twice a prime number | 37 Four times a prime number | 28 20 down minus 3 down |
| 35 Twelve times a prime number | 40 Six times a prime number | 30 1 across minus half of 31 down |
| 36 Two hundred one less than 37 down | 41 24 up divided by 11 across | 31 Ten times a prime number |
| 39 30 up minus 3 down | 46 Half of 14 down, then subtract 25 up | 32 Mean of 11 across and 8 up |
| 42 Last two digits are the same as last two digits of 2 down | 48 Seven times a prime number | 34 Three times a prime number |
| 44 34 up minus 24 down | 49 Sum of digits in 34 down | 36 Twenty-nine times a prime number |
| 45 38 down reversed | 50 Mean of 13 across and 8 up | 37 Half of 5 down, then subtract 36 down |
| 47 Twenty-two thousand three hundred forty-five more than 18 across | 51 Fifty-five times a prime number | 38 45 across reversed |
| 52 Mean of 11 across and 53 down | 54 Twice a prime number | 43 First two digits are the same as first two digits of 22 down |
| 54 A prime number | 55 7 across divided by 38 down | 53 Sum of digits in 45 across |

Puzzle 2



Across

- 1 45 up divided by 43 across
 5 17 up minus 37 down
 7 Half of 25 across, then subtract 8 down
 10 Mean of 39 down and 33 up
 11 50 down minus 15 across
 13 41 across plus 26 down
 15 Mean of 8 up and 39 down
 16 A square
 19 Half of 13 across, then subtract 3 down

Up

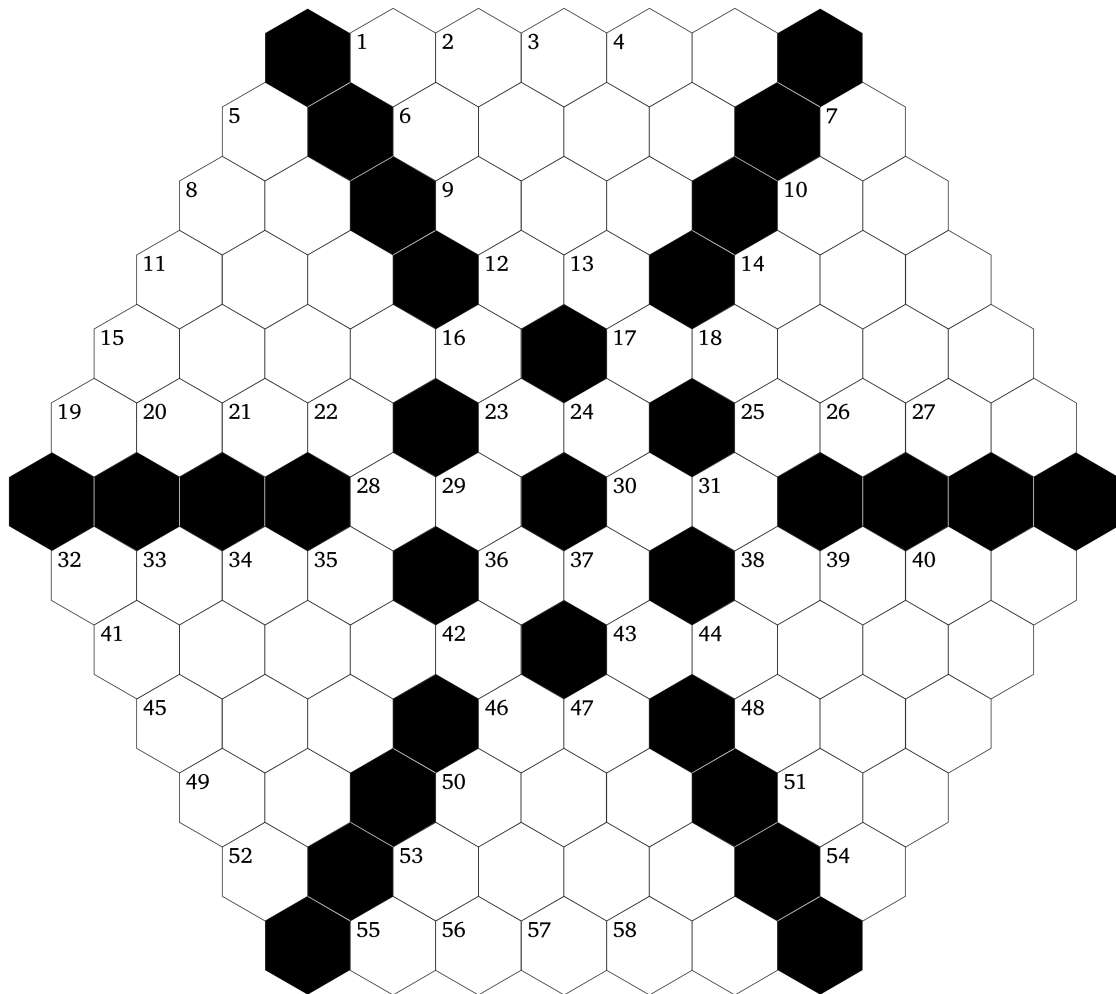
- 7 32 up minus 48 down
 8 48 down plus 34 across
 17 43 across plus 37 down
 18 Forty-six times 31 up
 20 5 across minus 39 down
 21 Mean of 1 across and 31 up
 23 Nine thousand seven hundred twenty-seven less than 50 up
 26 Mean of 29 down and 30 up
 27 Mean of 30 up and 11 down

Down

- 2 21 down minus 12 down
 3 27 up plus 11 across
 4 27 down minus 32 across
 5 Mean of 5 across and 51 down
 6 Eighty-three times a prime number
 8 5 across minus 11 down
 9 Twenty-five times 20 up
 11 A square
 12 Twenty-one times 23 down

Across (continued)	Up (continued)	Down (continued)
22 15 across minus 32 up	29 Six thousand seven hundred forty-four more than 25 across	14 51 up minus 4 down
24 51 down minus 22 across	30 47 across plus 40 across	15 A prime number
25 Last two digits are the same as last two digits of 14 down	31 Mean of 48 down and 54 up	21 Four times a prime number
28 Half of 55 up, then subtract 29 up	32 Mean of 22 across and 40 up	23 A square
32 43 across minus 32 up	33 Mean of 27 up and 5 across	26 Eighty-five times a prime number
34 43 across minus 27 up	35 A square	27 23 down minus 7 up
36 Four times a prime number	40 Twice the result of 20 up plus 52 across	29 27 down times 40 across
38 Last two digits are the same as last two digits of 21 down	42 Twice the result of 12 down plus 32 across	35 Three times a prime number
40 A square	44 Same as 1 across	37 First two digits are the same as 27 up
41 Fifty-nine times 5 down	45 44 up times 43 across	39 43 across minus 20 up
43 11 down plus 8 down	50 6 down plus half of 18 up	40 Its digits total 47 across
47 33 up minus 8 down	51 A prime number	46 33 up minus 11 down
49 First two digits are the same as 43 across	53 34 across minus half of 22 across	48 15 across minus 31 up
52 50 down divided by seven	54 Mean of 32 up and 15 across	50 47 across plus 39 down
54 Mean of 39 down and 44 up	55 Twenty-six times a prime number	51 26 down divided by 11 across

Puzzle 3



Across

- 1 Last two digits are the same as 4 down
- 6 10 down minus 19 across
- 8 23 across minus 30 across
- 9 45 up plus 41 up
- 10 Mean of 24 down and 37 up
- 11 Half of 38 across, then subtract 5 down
- 12 29 down minus 53 down
- 14 Rearranged digits of 11 down
- 15 One hundred thirty-four more than 17 across

Up

- 6 9 across minus 9 up
- 9 Mean of 48 across and 30 across
- 13 Thirty-five times a prime number
- 16 Eighty-four times a prime number
- 18 Nine times a prime number
- 19 Three thousand six hundred fifty-eight more than 55 across
- 20 Twice the result of 25 across minus 8 across
- 21 26 up minus 50 across
- 22 53 down reversed

Down

- 1 Mean of 19 across and 16 down
- 2 Twenty-two times a square
- 3 44 up plus 50 across
- 4 37 down minus 44 up
- 5 29 down times 46 across
- 7 Five thousand five hundred one less than 42 down
- 8 Twenty-seven times a prime number
- 10 Eleven times a prime number
- 11 11 across plus 10 across

Across (continued)

- 17 Last two digits are the same as 40 down
 19 Twice a prime number
 23 Mean of 29 down and 37 down
 25 Mean of 36 across and 20 up
 28 45 across minus 23 across
 30 40 down minus half of 37 down
 32 Two hundred twenty-five more than 20 up
 36 32 down divided by 14 across
 38 Twice a prime number
 41 Nineteen thousand thirty-four less than 15 across
 43 Three times a prime number
 45 2 down minus 1 across
 46 44 up plus 51 across
 48 3 down plus 10 across
 49 Mean of 23 across and 4 down
 50 Twenty-two times 51 across
 51 4 down minus 6 up
 53 44 down minus 39 down
 55 Mean of 15 across and 3 down

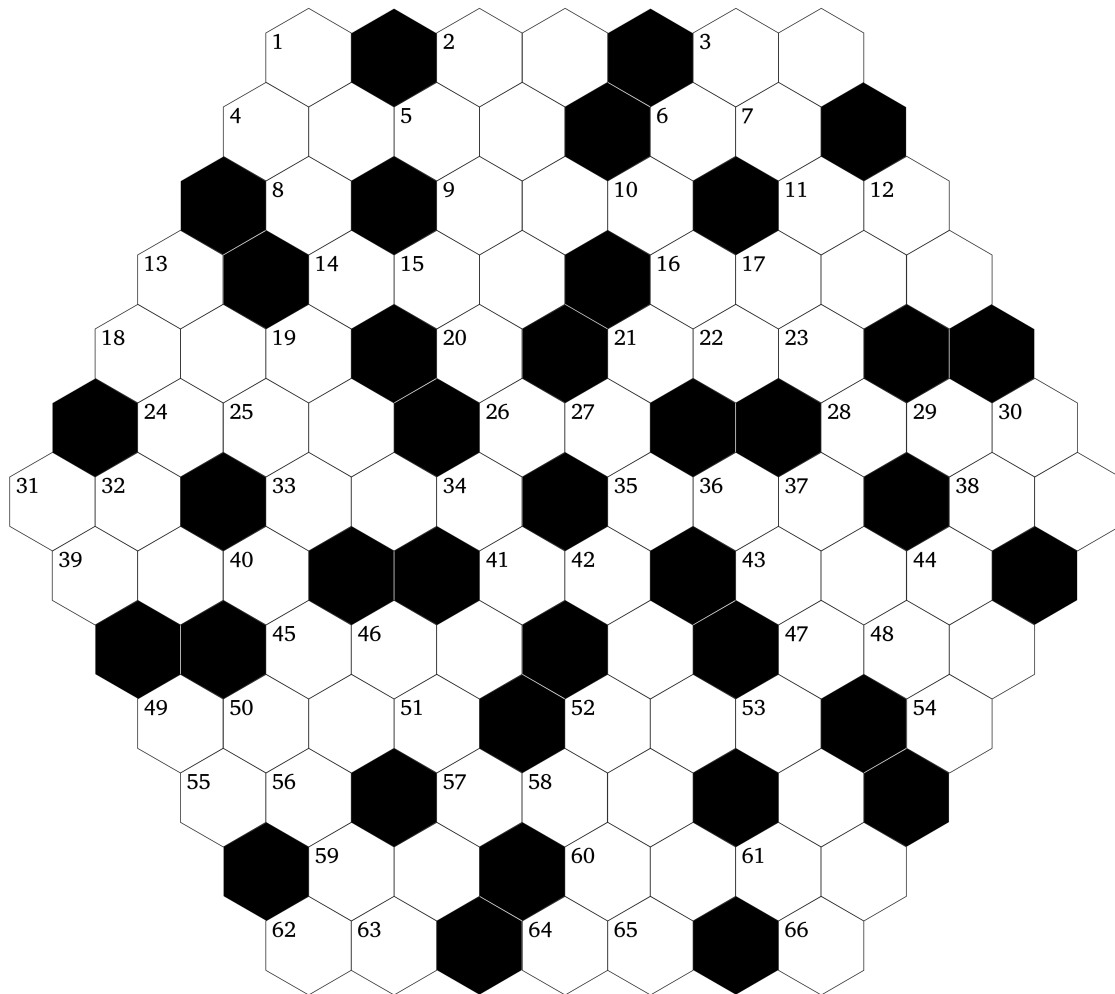
Up (continued)

- 24 51 across plus 4 down
 26 Three times a prime number
 27 50 down minus 45 across
 29 46 across plus 42 up
 31 50 across times 4 down
 37 24 up reversed
 41 18 down minus half of 22 up
 42 A square
 44 51 up divided by 30 across
 45 50 down minus 18 down
 48 Mean of 39 down and 37 up
 49 Seven times a prime number
 51 Six hundred fifty-seven less than 47 down
 52 19 across minus half of 10 across
 54 Twice a prime number
 55 31 down minus half of 7 down
 56 Sixty-one times a square
 57 Twelve times a prime number
 58 Mean of 27 up and 24 down

Down (continued)

- 14 Twenty-three times a prime number
 15 Same as 23 across
 16 Mean of 29 up and 36 across
 18 Mean of 16 down and 29 down
 24 Mean of 46 across and 24 up
 29 35 down minus 51 across
 31 First two digits are the same as first two digits of 51 up
 32 Ten thousand three hundred sixty less than 16 up
 33 Five times 11 down
 34 48 across plus 28 across
 35 41 across divided by 21 up
 37 Twice 22 up
 39 57 up minus 30 across
 40 44 up reversed
 42 A prime number
 44 1 down plus 26 up
 47 53 across minus 29 up
 50 40 down plus 45 across
 53 28 across minus 58 up

Puzzle 4



Across

- 2 Half of 52 across, then subtract 2 down
 3 21 across minus 10 down
 4 43 across times 42 up
 6 12 down plus 3 across
 9 31 down times 55 across
 11 42 down minus 57 across
 14 18 across minus half of 34 up
 16 Mean of 3 down and 58 down
 18 Twice 51 up
 21 10 up minus 31 down

Up

- 4 Mean of 44 down and 6 across
 5 Mean of 55 across and 29 down
 7 Twice the result of 38 across plus 54 up
 8 51 up minus 10 down
 10 Mean of 2 across and 22 up
 15 A prime number
 18 31 across plus half of 62 up
 20 Mean of 2 down and 22 up
 22 66 up plus 33 across
 23 Four times a prime number

Down

- 1 53 down divided by three
 2 17 down plus 44 down
 3 Twenty-three times a prime number
 4 2 down plus 43 up
 5 Mean of 22 up and 21 across
 10 A square
 12 Mean of 27 down and 30 down
 13 3 across times 59 across
 15 Mean of 18 up and 40 up
 17 27 down plus 46 down

Across (continued)

- 24 20 up minus 43 across
 26 47 across minus 40 up
 28 64 up minus 39 up
 31 39 across minus 4 down
 33 20 up minus 5 up
 35 4 down plus 8 up
 38 54 up minus 49 down
 39 Twice the result of 33 across minus 6 across
 41 2 across minus 38 across
 43 24 across plus 54 up
 45 9 across minus 5 up
 47 34 down plus 58 up
 49 Forty-four times a prime number
 52 40 down plus 34 down
 55 A cube
 57 10 down minus 32 down
 59 2 across plus 34 down
 60 56 up plus half of 27 up
 62 53 up minus 21 across
 64 31 down plus 44 down

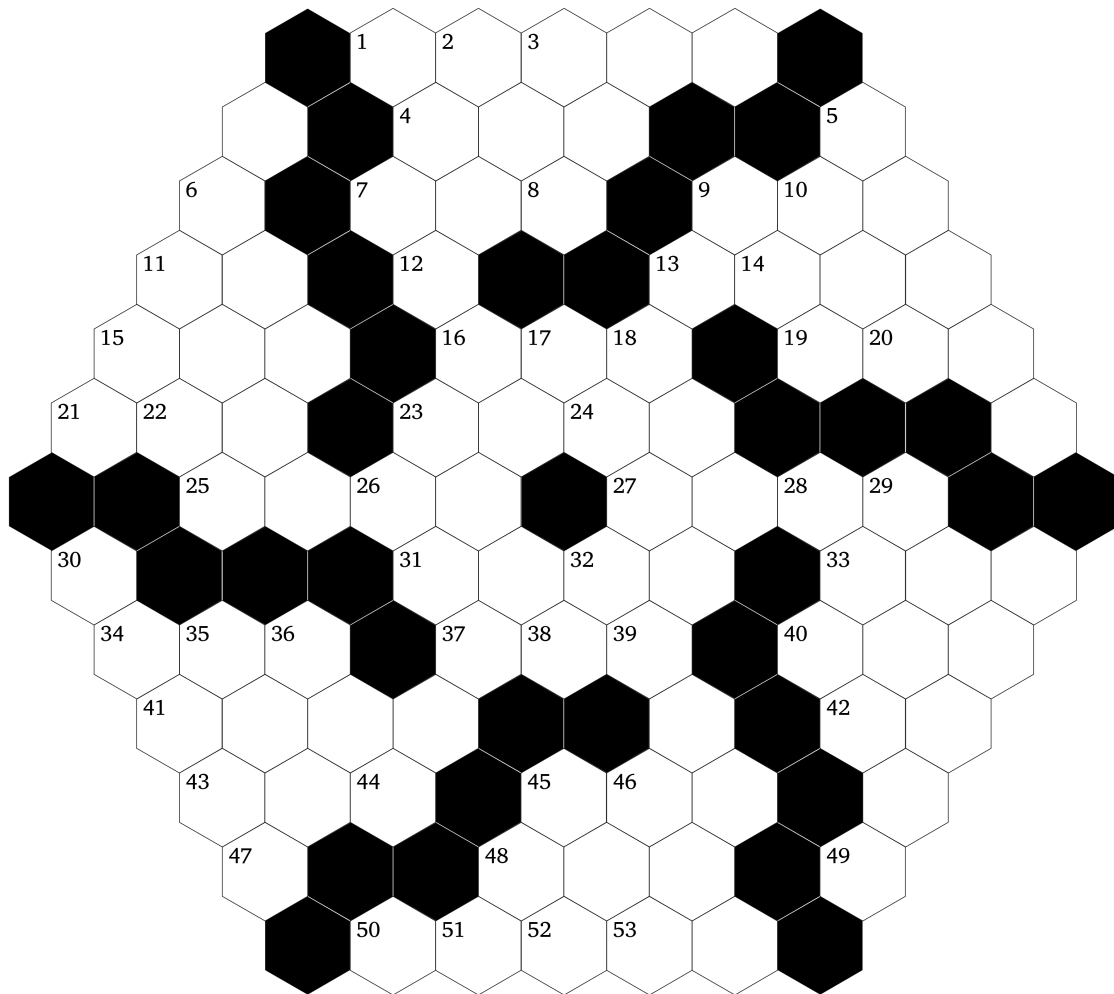
Up (continued)

- 25 35 across minus 15 down
 27 58 down minus 10 up
 34 11 across minus 62 up
 39 Twice a prime number
 40 45 across minus 66 up
 42 A cube
 43 25 up minus 42 up
 48 Mean of 4 down and 3 down
 51 61 up plus half of 15 down
 53 43 up plus 27 down
 54 40 up minus 58 down
 55 Half of 19 down, then subtract 34 down
 56 5 down reversed
 58 52 across minus 31 down
 61 Mean of 4 up and 2 across
 62 46 down minus 51 up
 63 Mean of 35 across and 47 across
 64 Nine times a prime number
 65 30 down minus 55 across
 66 8 up plus 31 down

Down (continued)

- 18 Mean of 64 across and 54 up
 19 35 across minus 4 up
 27 Mean of 11 across and 34 up
 29 52 down minus 47 across
 30 34 up plus 44 down
 31 A square
 32 46 down minus 51 up
 34 Mean of 3 across and 5 up
 36 Mean of 31 across and 10 down
 37 Six times a prime number
 40 52 across minus 31 across
 42 53 up minus 3 across
 44 1 down minus 61 down
 46 3 across plus 55 up
 49 Sum of digits in 37 down
 50 Thirteen times a square
 52 52 across plus 32 down
 53 10 down plus 4 up
 58 28 across minus 41 across
 61 11 across minus 38 across

Puzzle 5



Across

- 1 Seventy times a prime number
- 4 Two-thirds of 45 across
- 7 8 up plus 25 up
- 9 Mean of 9 down and 3 down
- 11 33 across minus 51 up
- 13 A prime number
- 15 28 down minus 13 across
- 16 Mean of 53 up and 43 across
- 19 48 across minus 8 up
- 21 Half of 19 across
- 23 Twenty-four times a prime number

Up

- 7 Mean of 51 up and 45 down
- 8 43 up minus 22 up
- 12 33 across plus 17 down
- 14 Same as 15 down
- 19 Mean of 41 up and 39 up
- 20 40 across minus 33 across
- 21 Twice a prime number
- 22 Mean of 19 up and 25 up
- 24 A prime number
- 25 48 down plus 11 across
- 26 40 up minus 42 up

Down

- 1 Mean of 43 across and 46 down
- 2 15 across minus 20 up
- 3 40 across divided by sixteen
- 5 Mean of 21 up and 21 across
- 6 Twice the result of 41 across minus 37 across
- 7 31 across plus half of 23 across
- 9 7 across minus 45 across
- 10 26 up minus 25 up
- 11 Twenty times a prime number
- 15 Eighty-five more than 1 down
- 17 One thousand four hundred sixty-seven more than 24 up

Across (continued)

- 25 45 across plus 42 up
27 Last two digits are the same as 20 up
31 Sixteen times 26 down

33 36 down plus 25 up
34 36 down minus 48 down

37 Mean of 41 across and 42 up
40 40 up minus 11 across
41 A prime number
42 Mean of 48 down and 41 up
43 1 down plus 42 across
45 2 down minus 19 across
48 39 up reversed
50 Three thousand two hundred seven more than 5 down

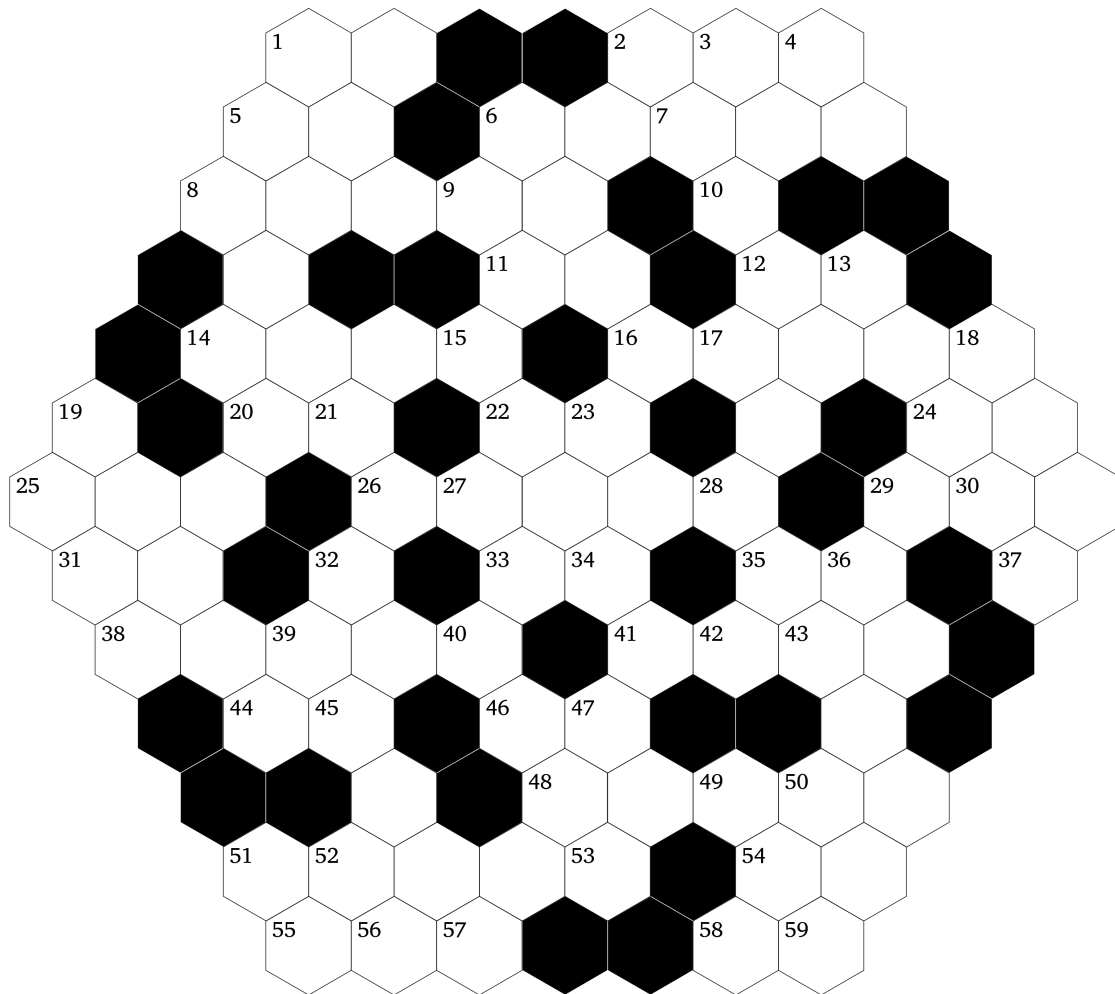
Up (continued)

- 31 Eighty-two times a square
38 Twelve times a prime number
39 48 across reversed
40 Mean of 40 down and 14 up
41 1 down minus 33 across
42 25 across minus 53 up
43 40 down minus 20 up
44 Mean of 37 across and 27 across
47 Mean of 45 down and 4 across
49 Mean of 50 across and 27 across
51 36 down plus 48 down
52 Sixteen times a prime number
53 Mean of 20 up and 43 across

Down (continued)

- 18 48 across divided by three
23 Thirty-two times a prime number
26 Twice the result of 25 across minus 40 down
28 Nine times a prime number
29 Twice the result of 42 up minus 10 down
30 Mean of 1 across and 1 down
32 Mean of 31 up and 9 down
35 Nine times a prime number
36 Mean of 51 up and 34 across
40 51 up plus 42 across
45 A square
46 Mean of 7 up and 2 down
48 8 up minus 19 across

Puzzle 6



Across

- 1 33 across plus 5 down
- 2 Mean of 55 across and 46 across
- 5 Mean of 42 up and 11 across
- 6 Five hundred more than 8 down
- 8 Eight times a prime number
- 11 Mean of 4 down and 58 across
- 12 Mean of 14 down and 22 across
- 14 Three times a square
- 16 Nine thousand four hundred eighty-seven more than 15 down

Up

- 7 55 across divided by 54 across
- 8 29 across minus 45 up
- 9 A square
- 10 Rearranged digits of 8 up
- 14 Twelve times a prime number
- 15 Five thousand four hundred fifty-seven more than 38 up
- 17 Mean of 47 down and 58 across
- 21 23 down divided by five

Down

- 1 Mean of 55 up and 59 up
- 2 Seven times a prime number
- 3 14 down minus 21 up
- 4 Three-fourths of 46 across
- 5 A square
- 6 Three times a prime number
- 8 Half of 57 up, then subtract 17 down
- 9 Mean of 50 down and 9 up
- 13 Five thousand four hundred thirty-five less than 2 down

Across (continued)

- 20 37 up plus 12 across
 22 Mean of 44 across and 52 down
 24 9 up minus 27 up
 25 30 up times 31 across
 26 Mean of 13 down and 58 across
 29 Mean of 49 down and 5 across
 31 50 down minus 32 down
 33 Mean of 37 up and 54 across
 35 46 across plus 21 up
 38 Twenty-six times a prime number
 41 Forty-one times a prime number
 44 Mean of 11 across and 56 up
 46 Mean of 44 across and 24 across
 48 16 across minus 8 across
 51 Five thousand three hundred eighty-eight more than 26 across
 54 27 up minus 42 up
 55 Thirty-two times a prime number
 58 Mean of 22 across and 44 across

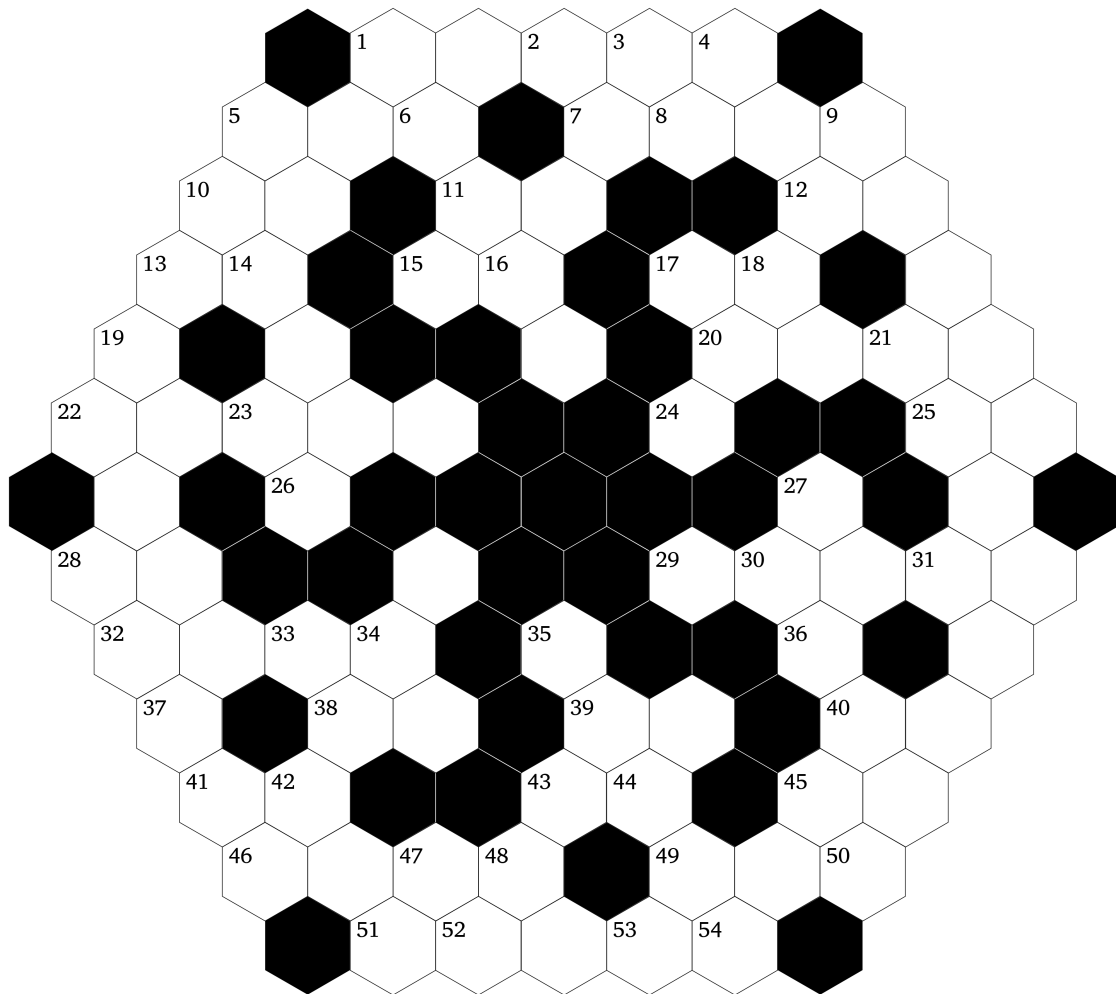
Up (continued)

- 27 14 across divided by 9 up
 28 Twenty-two times a prime number
 30 52 down divided by three
 31 47 down minus 14 down
 34 29 across minus 8 up
 37 A cube
 38 Rearranged digits of 58 up
 40 A prime number
 42 10 up divided by 27 down
 43 Eleven times a prime number
 44 Mean of 7 up and 6 across
 45 Same as 23 down
 53 Same as 47 down
 55 A prime number
 56 37 up plus 53 up
 57 Twenty-eight times a prime number
 58 Fourteen thousand eight hundred twenty-nine more than 39 down
 59 49 down minus 31 across

Down (continued)

- 14 32 down minus 54 across
 15 Nine thousand eight hundred one more than 48 across
 17 18 down minus 25 up
 18 35 across plus 11 across
 19 Thirty-three times a prime number
 23 27 up plus 27 down
 25 10 up minus 9 down
 27 11 across minus 3 down
 28 15 up plus 25 down
 32 Twice the result of 25 up minus 7 up
 36 1 across minus half of 35 across
 39 38 across minus half of 14 up
 40 27 up times 18 down
 47 8 up minus 44 across
 49 2 across minus 45 up
 50 8 up minus 46 across
 51 Mean of 31 up and 33 across
 52 53 up plus 54 across

Puzzle 7



Across

- 1 Two thousand two hundred four less than 1 down
 5 17 down plus 37 up
 7 22 up divided by 44 up
 10 Mean of 27 down and 30 up
 11 34 down plus 17 across
 12 44 up plus 26 up
 13 5 across minus 53 up
 15 38 across plus 47 down
 17 Mean of 53 up and 30 up
 20 Twenty times a prime number

Up

- 6 A square
 8 17 down reversed
 14 Twice the result of 16 up minus 25 across
 15 10 across plus 45 down
 16 Twenty-nine times 40 across
 21 31 down plus 34 down
 22 7 across times 41 across
 23 38 across plus 8 up
 24 Its digits total 31 down
 25 6 up minus 23 up

Down

- 1 Five thousand seven hundred thirty-five less than 51 across
 2 42 down minus 48 down
 3 Mean of 8 up and 38 across
 4 Seven times 53 up
 5 A square
 9 28 down minus 21 down
 10 20 across plus 52 up
 17 Mean of 25 up and 2 down
 18 28 across plus 53 up
 19 28 up minus half of 34 down

Across (continued)

- 22 One thousand four hundred twelve less than 1 down
25 Mean of 5 down and 34 down
28 48 down minus 31 down
29 A prime number
32 Twice a prime number
38 42 down minus 32 up
39 33 down minus 41 across
40 45 across plus 17 across
41 28 up minus 37 up
43 Mean of 15 across and 47 down
45 15 across minus 17 down
46 Mean of 20 across and 11 across
49 11 across plus 6 up
51 Seven thousand nine hundred thirty-nine more than 1 across

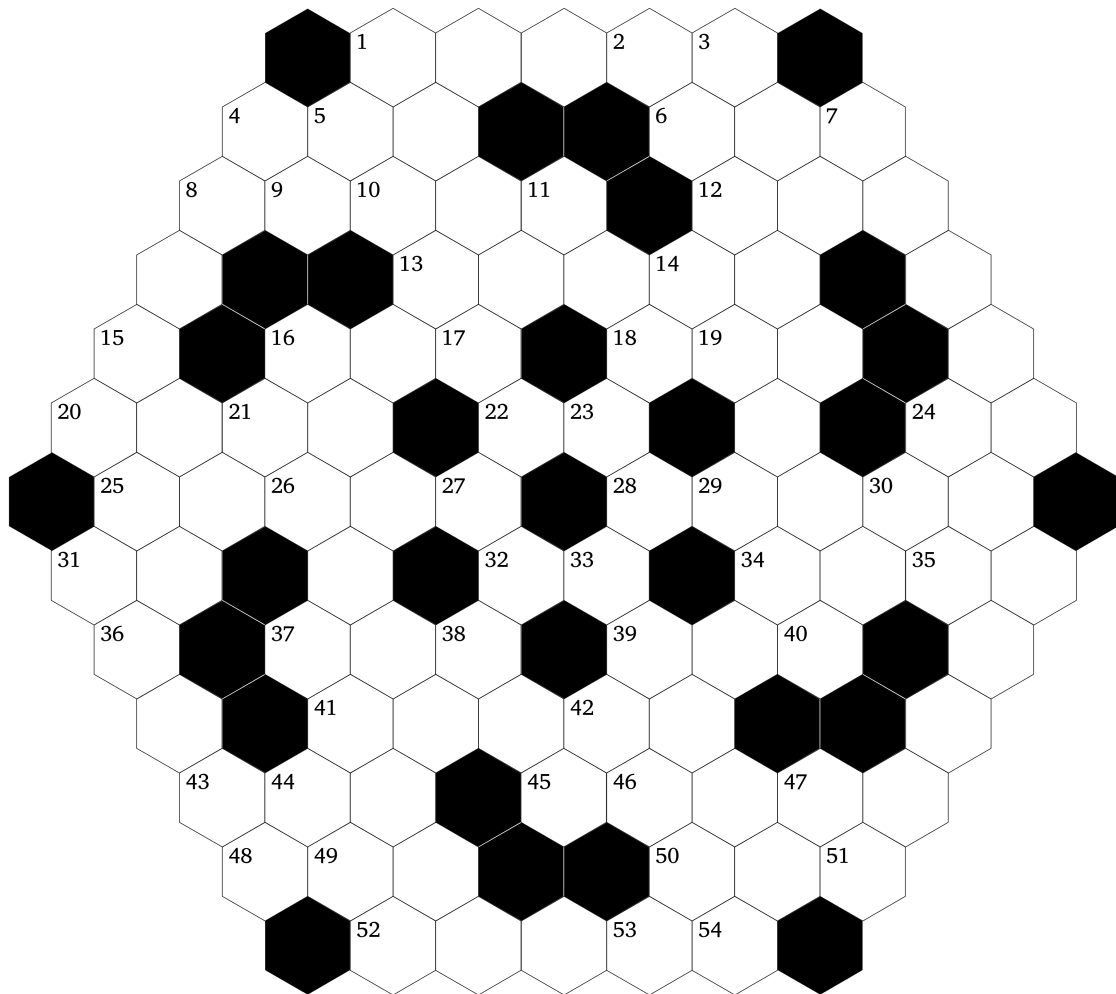
Up (continued)

- 26 Mean of 45 across and 45 down
28 5 down plus 32 up
30 18 down minus 23 down
31 5 across plus 15 across
32 42 down minus 25 up
36 40 across minus 44 up
37 2 down plus 25 up
44 Mean of 3 down and 38 across
46 Seven times a prime number
50 Its digits total 28 across
51 38 across plus 36 up
52 Three times a prime number
53 12 across minus 39 across
54 22 across divided by 8 up

Down (continued)

- 21 42 down times 27 down
22 Three hundred forty less than 32 across
23 51 up minus 45 down
27 15 across minus 30 up
28 Last two digits are the same as 44 up
30 Ten times a prime number
31 Mean of 25 across and 8 up
33 Sum of digits in 1 down
34 15 across minus 45 down
35 46 up minus half of 12 across
42 48 down plus 6 up
45 Mean of 8 up and 18 down
47 49 across minus 18 down
48 Mean of 10 across and 23 up

Puzzle 8



Across

- 1 35 up times 29 down
- 4 12 across minus 52 up
- 6 11 down plus 35 up
- 8 Eight hundred thirty-three less than 31 down
- 12 6 across minus 15 down
- 13 Four thousand forty-eight more than 46 up
- 16 16 down minus 32 across
- 18 Mean of 6 up and 16 down
- 20 Three times a prime number

Up

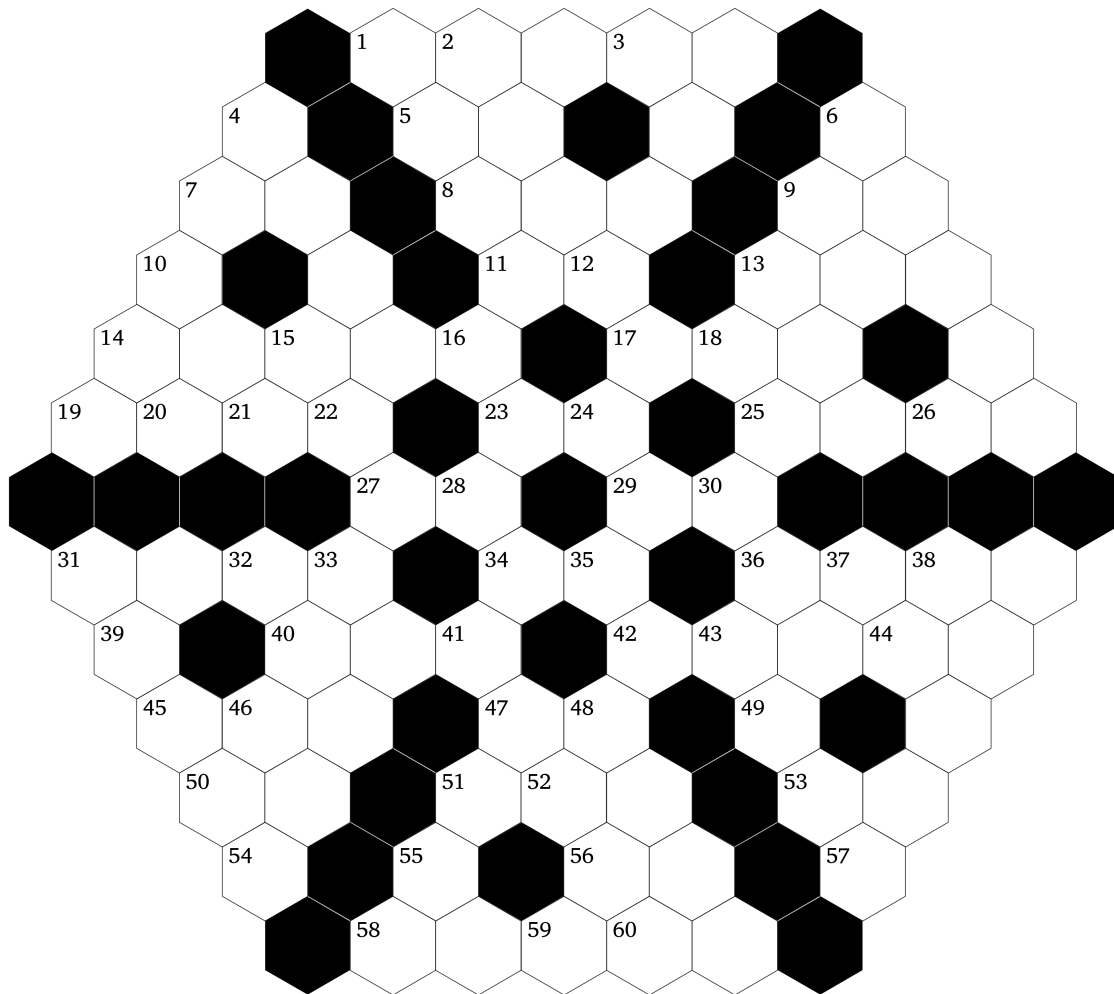
- 6 32 across minus 52 up
- 9 18 across plus 48 across
- 10 A cube
- 17 Fourteen times 33 up
- 19 A prime number
- 20 Six times a prime number
- 23 Consecutive digits unordered
- 26 Twenty-four times a prime number
- 27 Mean of 47 down and 22 across

Down

- 1 Eight times a prime number
- 2 Rearranged digits of 37 down
- 3 30 down minus 24 across
- 4 44 down minus 11 down
- 5 Mean of 51 up and 17 up
- 7 Fifty-eight times a prime number
- 11 44 down minus 47 down
- 14 Last two digits are the same as last two digits of 29 down
- 15 16 across minus 37 up

- | Across (continued) | Up (continued) | Down (continued) |
|--|--|--|
| 22 45 across divided by 4 across | 29 1 across divided by 35 up | 16 50 across minus 10 up |
| 24 4 down plus 47 down | 31 Twice the result of 43 across minus 54 up | 20 A prime number |
| 25 Four times a prime number | 33 52 across divided by 44 down | 21 45 up times 12 across |
| 28 Thirty-five times a square | 35 Mean of 44 down and 31 across | 23 24 across minus 52 up |
| 31 39 across minus 30 down | 36 6 across times 3 down | 24 Mean of 3 down and 9 up |
| 32 Mean of 27 up and 27 down | 37 Thirty-four times 52 up | 27 Mean of 24 across and 6 up |
| 34 Three hundred seventy-three less than 42 down | 40 Sixty-nine times a square | 29 Same as 29 up |
| 37 A prime number | 45 10 up minus 33 up | 30 A prime number |
| 39 Seven times 24 across | 46 Twice a prime number | 31 Five thousand two hundred ninety-one less than 7 down |
| 41 A prime number | 48 Seventy-six more than 1 down | 33 Six thousand twenty-six less than 46 up |
| 43 50 across minus 31 across | 49 Mean of 25 across and 26 up | 37 13 across minus 20 up |
| 45 Sixty-four times a prime number | 51 Ten times a prime number | 38 A prime number |
| 48 Forty-one times 52 up | 52 10 up minus 11 down | 42 Twenty-nine times a prime number |
| 50 38 down minus 45 up | 53 14 down minus half of 40 up | 44 48 across minus 54 up |
| 52 Five hundred eighty-one more than 14 down | 54 11 down reversed | 47 Mean of 23 down and 52 up |

Puzzle 9



Across

- 1 Mean of 30 up and 57 up
 5 13 across minus 59 up
 7 50 across minus 24 up
 8 41 down divided by 16 up
 9 19 up minus 42 across
 11 Three-fifths of 56 across
 13 13 down plus 9 down
 14 Three times a prime number
 17 Mean of 49 up and 3 down
 19 35 up times 41 up

Up

- 5 Mean of 56 across and 3 down
 8 Six times a prime number
 12 Twenty-six times a prime number
 16 23 across plus 33 down
 18 First two digits are the same as 18 down
 19 9 down plus 42 across
 20 Mean of 29 across and 33 down
 21 27 across plus 59 up
 22 54 up minus half of 48 down
 24 Mean of 20 up and 38 down

Down

- 1 A prime number
 2 First two digits are the same as 14 down
 3 19 across divided by 35 up
 4 5 up plus 58 up
 6 40 across times 28 up
 9 29 across minus 38 down
 10 51 across plus 27 across
 13 Thirteen times 46 down
 14 A square
 15 Twice the result of 45 across plus 5 across

Across (continued)

- 23 Mean of 3 down and 39 up
25 Mean of 26 up and 54 up
27 11 across plus 53 across
29 54 up divided by 47 across
31 Twice the result of 36 across plus 20 up
34 39 up minus 22 up
36 22 up plus 54 up
40 6 down divided by 50 across
42 Consecutive digits unordered
45 Mean of 59 up and 8 across
47 18 down plus 28 down
50 21 up minus 13 down
51 A prime number
53 Half of 8 up, then subtract 13 across
56 28 down minus half of 14 down
58 First three digits are the same as first three digits of 4 down

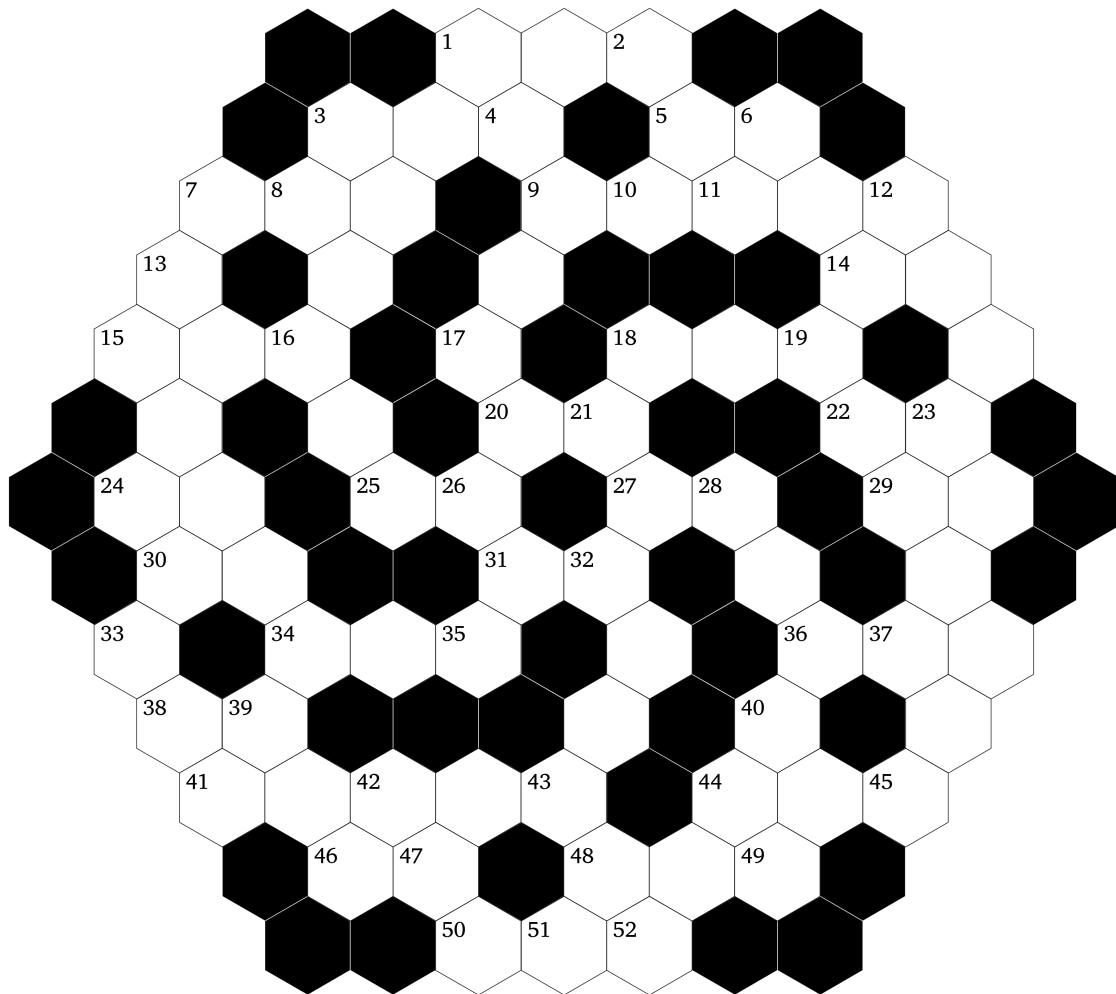
Up (continued)

- 26 11 across plus 23 across
28 Same as 50 across
30 Three times a prime number
35 58 up minus half of 19 across
39 34 across plus 7 across
41 44 up minus 11 across
43 A square
44 24 down plus 5 up
49 Eleven times a prime number
50 Fourteen times a prime number
52 Two-fifths of 18 up
54 36 across minus 7 across
57 First two digits are the same as 53 across
58 55 down times 39 up
59 A prime number
60 44 up minus 41 up

Down (continued)

- 16 23 across minus 27 across
18 28 up minus 24 down
24 A square
28 Mean of 39 up and 60 up
30 21 up minus 20 up
31 Twice a prime number
32 Seven times 28 down
33 5 up minus 16 down
35 A square
37 Nine times a prime number
38 A square
41 First two digits are the same as 41 up
43 Sixty-five times a prime number
46 Half of 44 up, then subtract 55 down
48 First two digits are the same as first two digits of 49 up
55 39 up minus 34 across

Puzzle 10



Across

- 1 46 up plus 1 down
- 3 39 down minus 5 across
- 5 30 across minus 40 down
- 7 Mean of 29 up and 50 across
- 9 Twelve times a prime number
- 14 49 up minus 44 down

- 15 31 across plus 48 across
- 18 15 across plus half of 3 down
- 20 Mean of 37 down and 24 across
- 22 15 up divided by six
- 24 30 across minus 44 down

Up

- 4 46 across minus 40 down
- 8 Mean of 25 across and 11 up
- 10 Sum of digits in 3 across
- 11 5 across minus 24 across
- 15 Mean of 50 across and 43 down
- 16 Last two digits are the same as last two digits of 15 up
- 17 Mean of 2 down and 12 down
- 19 42 down minus 30 across
- 21 Same as 25 across
- 24 3 across minus 22 across
- 26 5 across plus 24 down

Down

- 1 5 across plus 16 down
- 2 1 across minus 6 down
- 3 A square
- 6 11 up plus 23 down
- 8 13 down minus 47 up
- 12 17 up plus 36 across

- 13 19 up minus 3 down
- 15 A prime number
- 16 33 down minus 11 up
- 17 24 across plus 30 across
- 19 16 down times 20 across

Across (continued)

- 25 48 across divided by 14 across
- 27 Mean of 13 down and 49 up
- 29 43 up divided by 24 across
- 30 Mean of 44 down and 17 down
- 31 6 down minus 40 down
- 34 Mean of 36 across and 46 up
- 36 44 across plus 51 up
- 38 17 down plus 14 across
- 41 Three times a square
- 44 24 up minus 30 across
- 46 A cube
- 48 14 across times 21 up
- 50 26 down plus 36 across

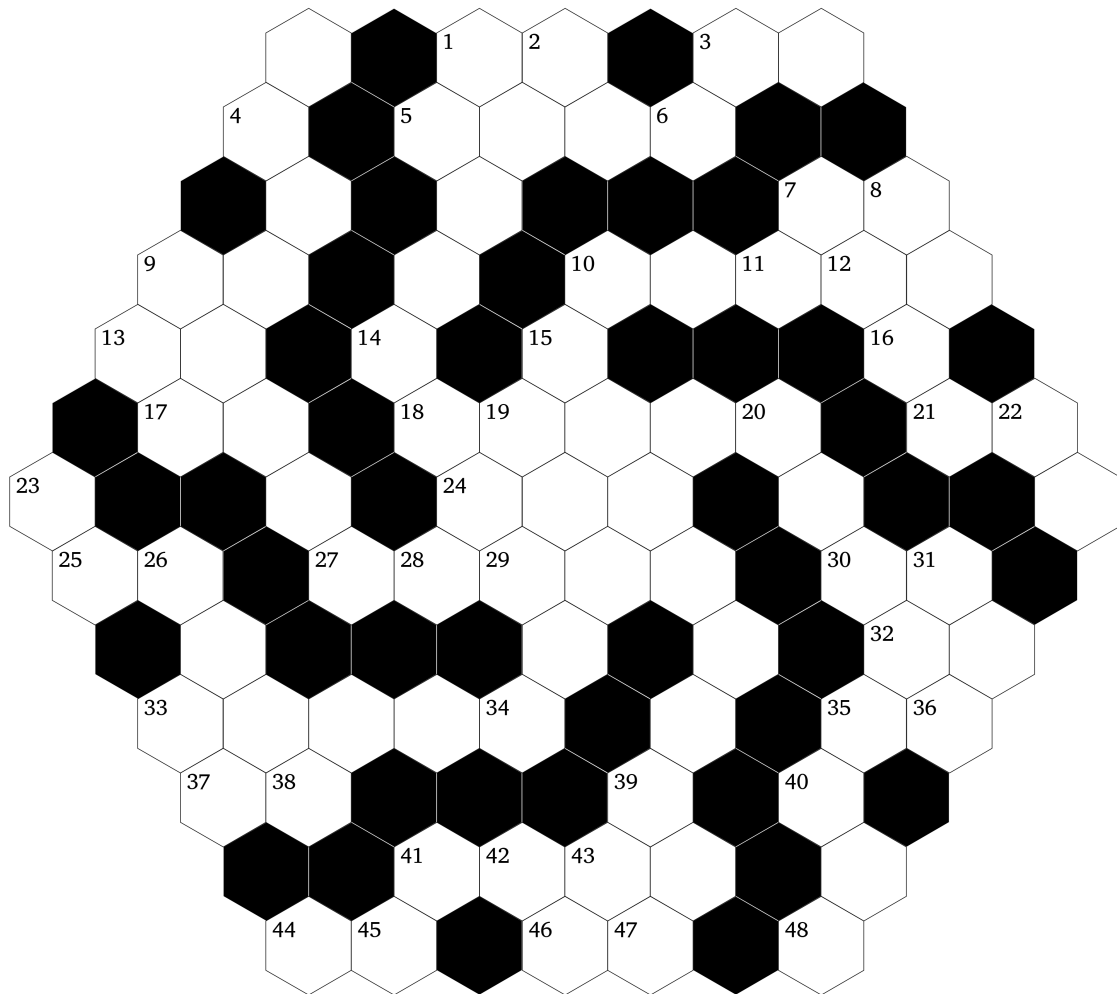
Up (continued)

- 29 Mean of 15 up and 33 down
- 32 Mean of 37 down and 13 down
- 33 Mean of 1 across and 44 across
- 35 17 up divided by 51 up
- 37 11 up plus 43 up
- 41 Mean of 23 down and 3 across
- 43 22 across plus 45 up
- 45 16 down plus 33 up
- 46 Mean of 21 down and 44 down
- 47 24 across plus 26 down
- 49 15 up divided by 11 up
- 51 Mean of 8 down and 49 up
- 52 Twenty-eight times a prime number

Down (continued)

- 21 17 up divided by 3 down
- 23 28 down minus 41 up
- 24 Mean of 46 across and 46 up
- 26 Mean of 21 down and 22 across
- 28 20 across plus 36 across
- 32 Mean of 47 up and 37 down
- 33 1 across minus 29 across
- 37 Mean of 27 across and 23 down
- 39 Mean of 37 up and 4 up
- 40 46 across minus 10 up
- 42 Mean of 28 down and 8 down
- 43 45 up plus 19 up
- 44 A square

Puzzle 11



Across

- 1 23 down plus 42 down
- 3 Mean of 40 down and 36 up
- 5 Three times a prime number
- 7 1 down plus 25 across
- 9 Mean of 4 down and 8 down
- 10 45 up times 29 up
- 13 2 down minus 1 across
- 17 23 down plus 37 across
- 18 A prime number
- 21 13 down minus 33 up
- 24 10 across divided by 45 up

Up

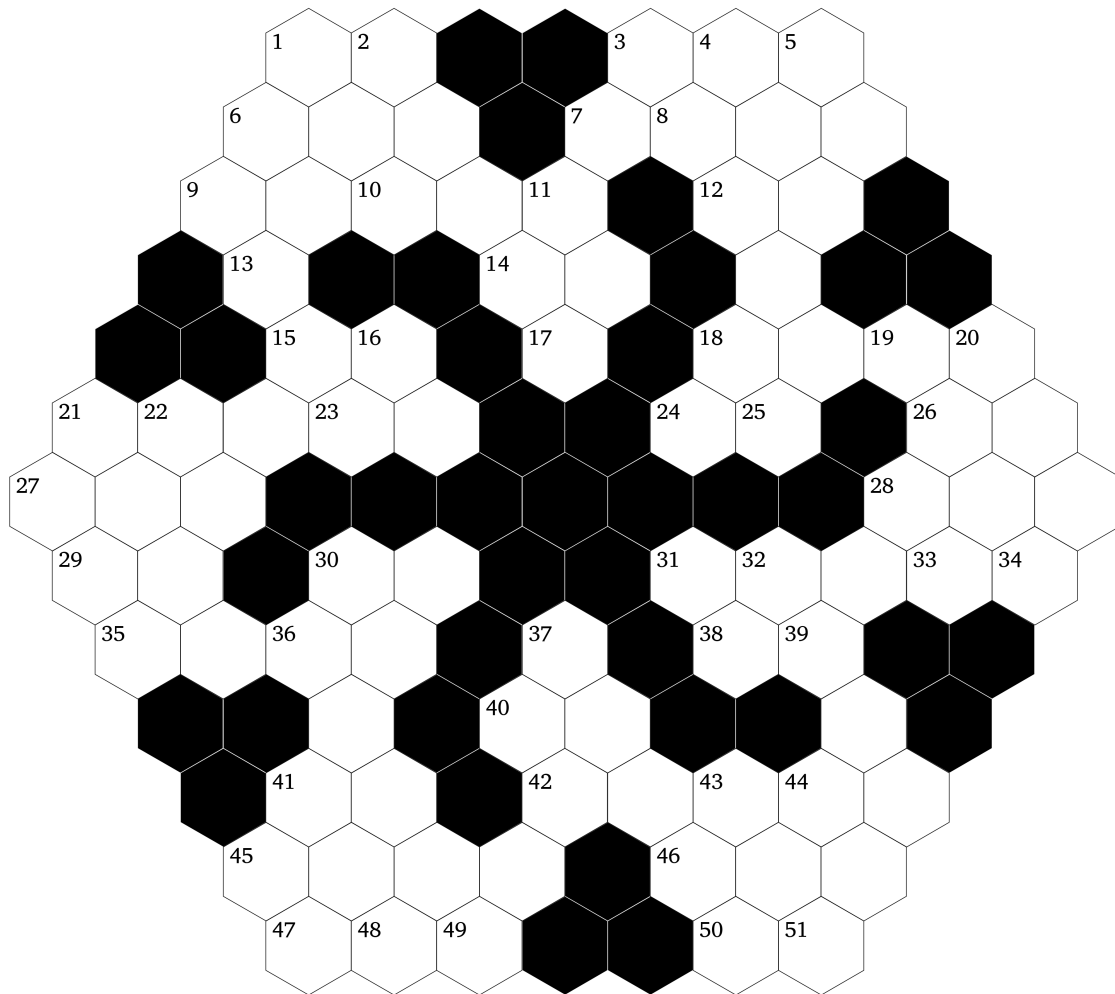
- 4 Mean of 23 down and 5 down
- 5 40 down plus 38 up
- 6 1 down minus 4 up
- 11 13 up plus 47 up
- 12 Mean of 30 across and 39 down
- 13 Mean of 33 up and 45 up
- 14 Thirteen times a prime number
- 16 4 down plus 30 across
- 17 Four times a prime number
- 28 A palindrome
- 29 Mean of 19 down and 3 across

Down

- 1 Mean of 11 up and 38 up
- 2 A prime number
- 4 21 across plus 35 across
- 5 16 up plus 22 down
- 7 20 down divided by 21 across
- 8 13 across plus 12 up
- 9 46 up reversed
- 13 A cube
- 14 Eighty-five times a prime number
- 15 Mean of 34 up and 14 up
- 19 Seven times a prime number

Across (continued)	Up (continued)	Down (continued)
25 31 down minus 13 down	33 Twice the result of 23 down minus 22 down	20 7 down times 6 up
27 A prime number	34 Last two digits are the same as 44 across	22 4 up divided by four
30 Mean of 13 across and 40 down	36 2 down minus 17 across	23 35 across minus 3 across
32 25 across plus 1 down	37 7 across minus half of 11 up	26 A prime number
33 A prime number	38 Mean of 46 across and 17 across	31 1 down minus 3 across
35 Mean of 9 across and 44 across	40 1 across times 45 up	33 13 across minus half of 13 up
37 Mean of 39 down and 23 down	45 A square	39 40 up divided by 13 down
41 1 down times 5 up	46 Last two digits are the same as 8 down	40 Twice the result of 25 across minus 21 across
44 9 across minus 4 up	47 6 up plus 25 across	42 9 across minus 23 down
46 Mean of 5 up and 48 up	48 Mean of 4 down and 31 down	43 Mean of 4 down and 22 down

Puzzle 12



Across

- 1 8 up minus 5 down
- 3 27 down minus 46 across
- 6 Twenty-eight times a prime number
- 7 Four times a prime number
- 9 Fifty-four times a prime number
- 12 Mean of 22 down and 28 down
- 14 50 across plus 29 across
- 15 21 down divided by 5 down
- 18 Thirteen times a square
- 21 Last two digits are the same as 25 up

Up

- 8 40 down reversed
- 9 25 up plus 24 across
- 10 15 across minus 22 down
- 12 4 down minus 44 down
- 13 9 down minus 31 down
- 14 Twice the result of 35 across minus 14 across
- 17 23 up minus 46 up
- 23 29 across plus 18 down
- 24 15 across times 27 across
- 25 Mean of 17 up and 15 across

Down

- 1 Mean of 30 across and 47 across
- 2 Eighty-five times a square
- 3 Three times a prime number
- 4 9 across divided by 46 up
- 5 10 up plus 46 up
- 6 Mean of 40 up and 12 across
- 9 13 up plus 12 across
- 11 Mean of 26 across and 10 up
- 16 15 across minus half of 17 up
- 18 Mean of 22 down and 5 down

Across (continued)

- 24 38 up plus 50 across
 26 46 up plus 28 down
 27 24 up divided by 8 up
 28 12 up minus 23 up
 29 3 across divided by 38 across
 30 23 up minus 10 up
 31 47 up times 40 up
 35 49 up minus 27 down

 38 27 up minus 48 up

 40 A square

 41 Mean of 15 across and 17 up

 42 Twelve times a prime number
 45 Twice the result of 49 up minus 43 down
 46 40 across plus 36 up
 47 27 across minus 11 down
 50 A square

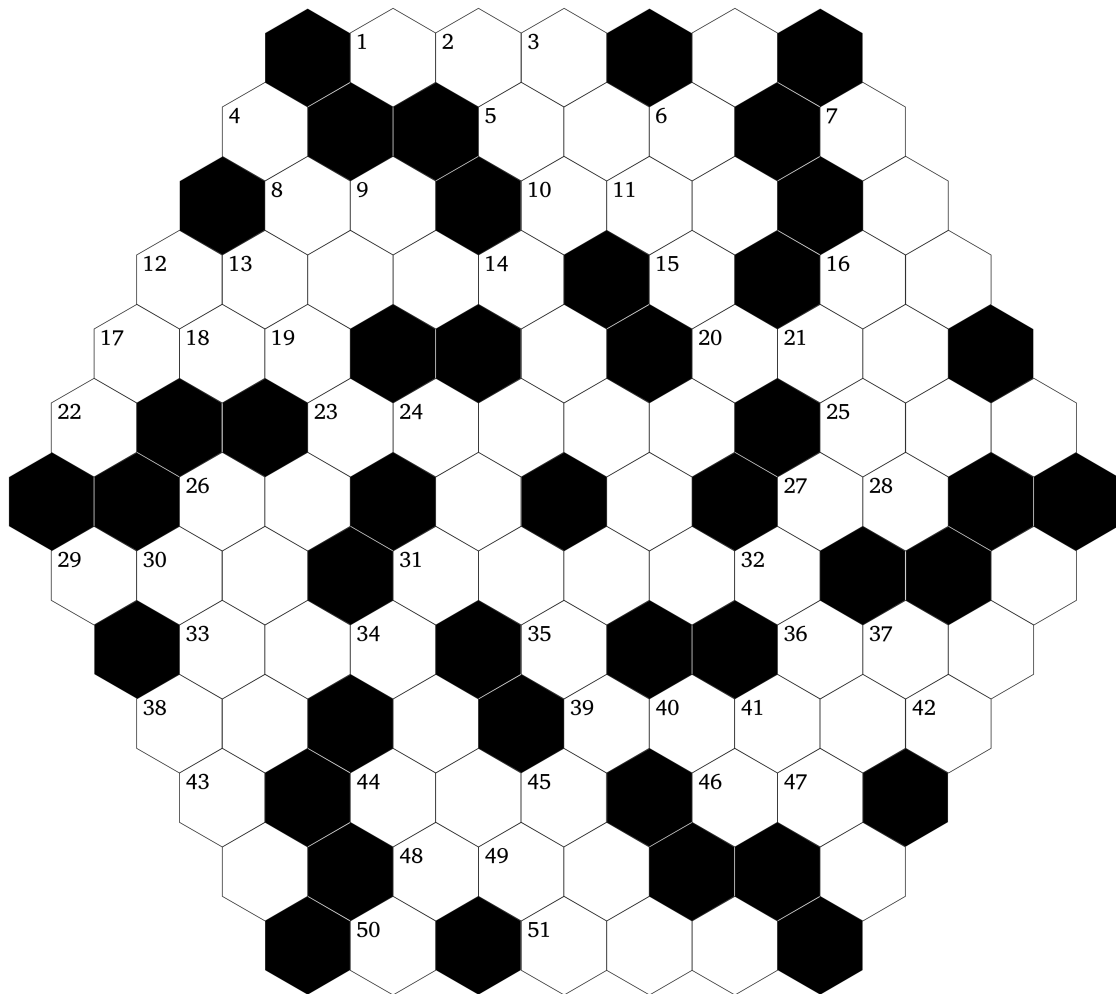
Up (continued)

- 27 11 down reversed
 29 A square
 33 Mean of 47 up and 18 down
 34 8 up minus 18 down
 35 18 across plus half of 45 up
 36 50 across plus 38 across
 38 24 across minus 48 up
 39 Eight thousand eighty-six more than 21 across
 40 Half of 42 across, then subtract 21 across
 45 Forty-four times a prime number
 46 24 across minus 40 up
 47 Eleven times 41 across
 48 A square
 49 Forty-six times a prime number
 50 19 down plus 47 across
 51 Rearranged digits of 27 across

Down (continued)

- 19 Thirteen times a prime number
 20 Seven times a prime number
 21 8 up times 5 down
 22 41 down divided by twelve
 27 47 up minus 10 up
 28 Mean of 34 up and 48 up
 30 Mean of 28 down and 38 up
 31 Mean of 45 down and 38 up
 32 Four times a prime number
 36 Thirteen thousand seven hundred eighty-two more than 45 up
 37 Thirteen thousand four hundred twenty more than 36 down
 40 31 across divided by 47 up
 41 27 down minus 40 up
 43 Three times a prime number
 44 50 across plus 48 up
 45 Same as 14 across

Puzzle 13



Across

- 1 Mean of 50 up and 5 up
 5 Mean of 6 down and 13 down
 8 5 across divided by 38 across
 10 14 down minus 3 down
 12 Seventy-one times a prime number
 16 28 up minus 46 across
 17 37 down times 5 up
 20 Mean of 4 down and 46 up
 23 A prime number
 25 51 across plus 1 across

Up

- 5 Mean of 15 up and 40 down
 11 47 up plus 38 across
 14 Mean of 15 up and 48 across
 15 26 down minus 33 across
 18 51 up plus 5 across
 19 47 up minus 45 down
 21 21 down minus 46 across
 22 17 across minus half of 11 up
 28 27 across plus 5 up
 30 51 across minus 2 down

Down

- 2 Mean of 47 up and 1 across
 3 14 down minus 25 across
 4 10 across minus 51 up
 6 Half of 21 down, then subtract 33 across
 7 48 across minus 42 up
 9 21 up minus 19 up
 12 22 up minus 30 up
 13 33 across plus 18 up
 14 Seven thousand one hundred less than 24 down
 16 26 down minus 46 across

Across (continued)

- 26 25 across minus 13 down
 27 Sum of digits in 23 across
 29 2 down minus 1 across
 31 A prime number
 33 Mean of 40 down and 2 down
 36 Mean of 10 across and 8 across
 38 Same as 37 down
 39 Fifteen thousand nine hundred forty-two less than 31 across
 44 Seventeen times a square
 46 30 up reversed
 48 13 down minus 44 up
 51 Twice the result of 29 across minus 12 down

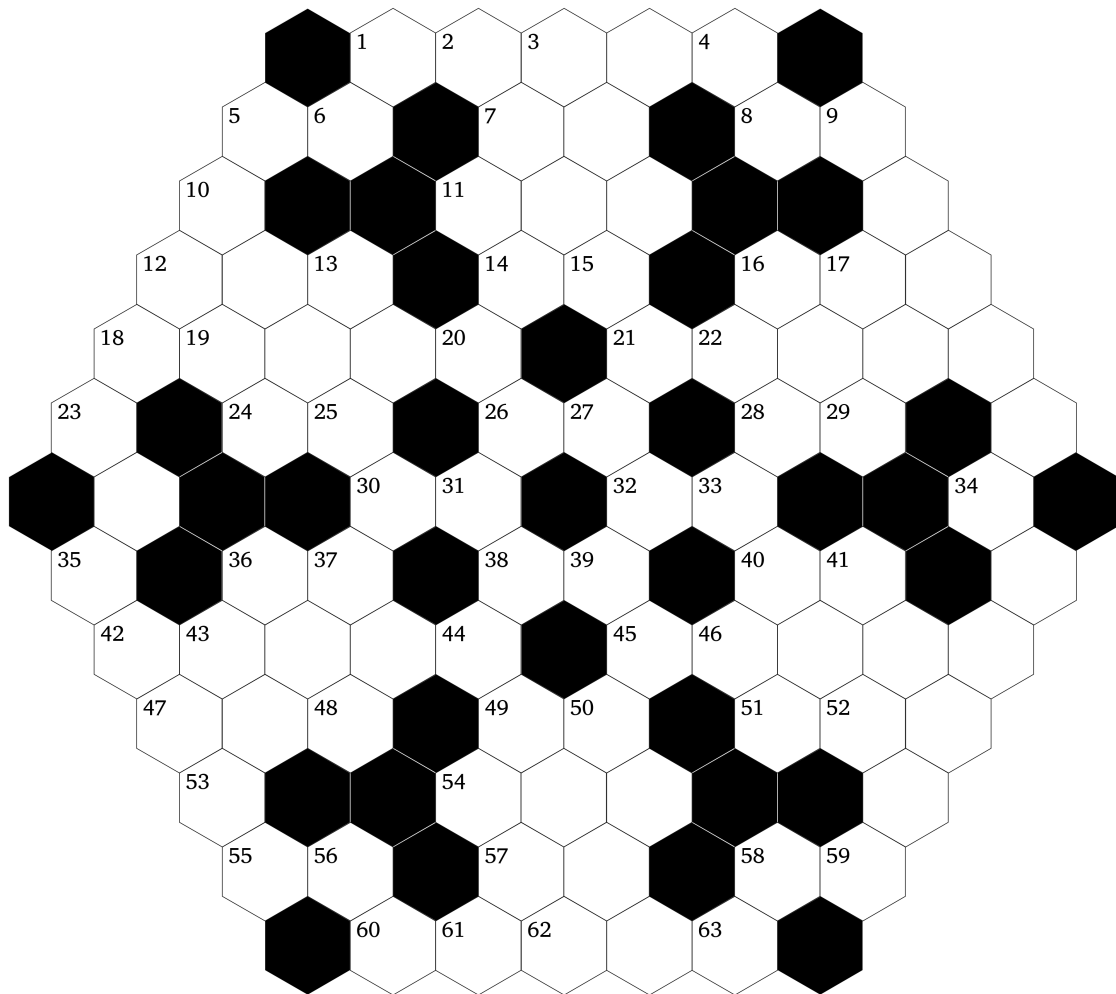
Up (continued)

- 32 Three hundred seventy-nine less than 23 across
 34 Seven times a prime number
 35 Five times a prime number
 38 Ninety-one times a prime number
 42 Mean of 41 down and 40 down
 43 Mean of 6 down and 50 up
 44 Twice the result of 48 across minus 21 up
 46 47 up minus 2 down
 47 11 up minus 37 down
 49 30 up plus 17 across
 50 21 up minus 45 down
 51 1 across minus 44 down

Down (continued)

- 21 A square
 24 Mean of 12 across and 38 down
 26 50 up plus half of 7 down
 30 51 across plus 33 across
 32 48 across plus 51 up
 34 Nine thousand four hundred twenty-five less than 34 up
 37 5 across divided by 8 across
 38 42 up minus 46 up
 40 44 down minus 15 up
 41 44 across plus 43 up
 44 4 down minus 51 across
 45 32 down minus 14 up

Puzzle 14



Across

- 1 Five times a prime number
- 5 Half of 25 up, then subtract 24 across
- 7 22 down plus 34 up
- 8 Mean of 32 across and 28 across
- 11 A square
- 12 Mean of 54 across and 6 up
- 14 20 down minus 22 down
- 16 Mean of 36 down and 20 down
- 18 Twenty-four times a prime number
- 21 62 up times 20 down
- 24 36 across minus 14 across

Up

- 6 31 up plus 39 down
- 11 13 down plus 40 across
- 15 Mean of 40 across and 57 across
- 19 37 down minus 39 up
- 20 A palindrome
- 22 6 up divided by four
- 23 42 across plus 34 up
- 24 8 across plus 51 up
- 25 27 down plus 39 down
- 27 A square
- 29 38 across plus 50 down

Down

- 2 Mean of 53 up and 63 up
- 3 61 up divided by 43 down
- 4 Mean of 58 across and 11 down
- 9 Mean of 33 up and 41 down
- 10 A prime number
- 11 A square
- 12 24 up plus 34 up
- 13 34 down plus 55 across
- 16 16 across plus 34 up
- 17 Mean of 31 down and 15 up
- 20 Mean of 39 up and 11 up

Across (continued)

- 26 Mean of 63 up and 54 up
- 28 31 up plus 6 up
- 30 11 up minus 38 across
- 32 Mean of 30 across and 39 up
- 36 Mean of 34 down and 11 up
- 38 39 up reversed
- 40 54 up plus 14 across
- 42 Fifty-five times a prime number
- 45 Twelve times a prime number
- 47 31 up plus 47 up
- 49 Mean of 48 up and 46 up
- 51 12 down minus 34 up
- 54 Twenty-two times 11 down

- 55 51 up minus 52 up
- 57 Mean of 35 up and 55 across
- 58 46 up plus 43 down
- 60 44 up plus 35 down

Up (continued)

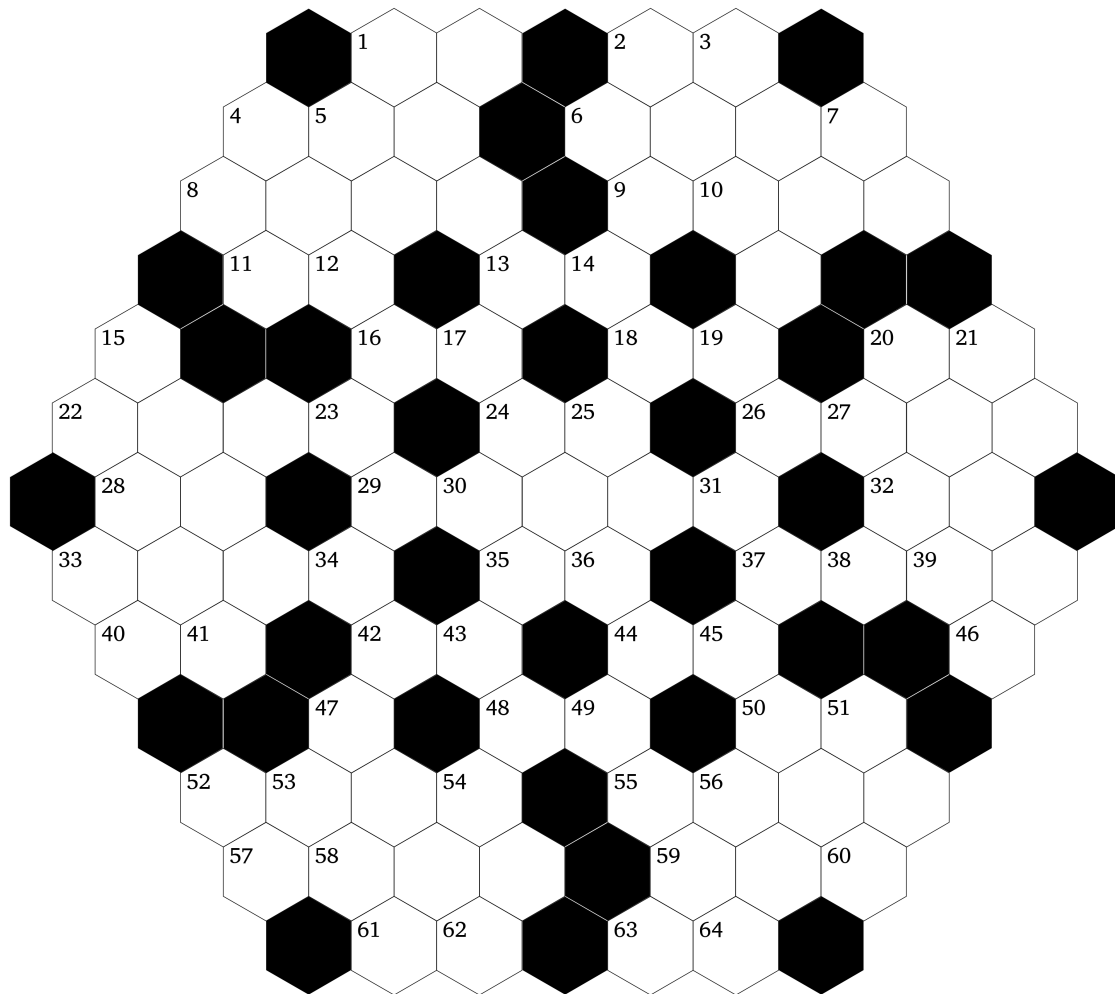
- 31 40 across minus 27 up
- 33 Fifty times a prime number
- 34 A cube
- 35 Mean of 22 up and 52 up
- 39 29 up minus 40 across
- 44 Mean of 31 up and 8 across
- 46 Mean of 55 across and 44 up
- 47 Twice the result of 24 up plus 48 up
- 48 Mean of 38 across and 24 across
- 51 23 down plus 36 across
- 52 46 up plus 4 down
- 53 Seventeen times a prime number
- 54 Mean of 19 up and 7 across

- 59 10 down plus 16 across
- 61 32 across times 3 down
- 62 Mean of 19 up and 41 down
- 63 30 across minus 22 up

Down (continued)

- 22 17 down minus 54 up
- 23 22 down plus 11 down
- 27 29 up minus 32 across
- 31 Mean of 23 down and 56 down
- 33 A prime number
- 34 15 up minus 13 down
- 35 60 across minus 35 up
- 36 A prime number
- 37 27 up minus 22 down
- 39 31 up minus 22 up
- 41 Four times a prime number
- 43 Mean of 63 up and 57 across
- 44 Last two digits are the same as 40 across
- 46 32 across minus half of 26 across
- 50 34 up reversed
- 54 54 across minus 24 across
- 56 50 down minus 49 across

Puzzle 15



Across

- 1 Half of 41 up, then subtract 46 up
- 2 58 up minus 25 down
- 4 58 up times 1 across

- 6 33 across minus 22 up
- 8 26 across minus 31 down
- 9 Seventy-seven times 41 up
- 11 Mean of 25 down and 23 down
- 13 Mean of 2 across and 34 up
- 16 8 down plus 24 across
- 18 Two-thirds of 25 down
- 20 18 across plus 21 down

Up

- 6 25 down plus 28 across
- 8 Mean of 42 across and 31 up
- 10 14 down plus 18 across

- 11 Mean of 27 down and 5 down
- 12 47 down plus 17 up
- 14 Seven times a prime number
- 17 34 up plus 51 down
- 19 Twenty-one times a prime number
- 22 8 down plus 24 across
- 23 62 up minus 20 across
- 27 36 up plus 25 down

Down

- 1 42 across times 11 across
- 2 Fifty-two times 42 across
- 3 First two digits are the same as 24 across
- 4 57 up minus 6 down
- 5 7 down minus 46 up
- 6 36 up plus 58 up
- 7 Mean of 41 up and 30 down
- 8 34 up minus 18 across
- 14 43 up divided by 63 up
- 15 55 across minus 25 down
- 17 First two digits are the same as 30 up

Across (continued)

- 22 A prime number
- 24 19 up minus half of 64 up
- 26 8 across plus 11 across
- 28 Sum of digits in 17 down
- 29 A prime number
- 32 Mean of 52 down and 13 across
- 33 6 across plus 16 across
- 35 A square
- 37 Seven times a prime number
- 40 58 up minus 41 up

- 42 1 down divided by 52 down
- 44 60 up plus 32 across
- 48 A square
- 50 6 up minus 8 up
- 52 63 across plus 11 up
- 55 15 down plus 43 down
- 57 16 across times 44 across
- 59 33 up minus 6 up
- 61 Mean of 8 down and 36 up
- 63 Mean of 27 up and 1 across

Up (continued)

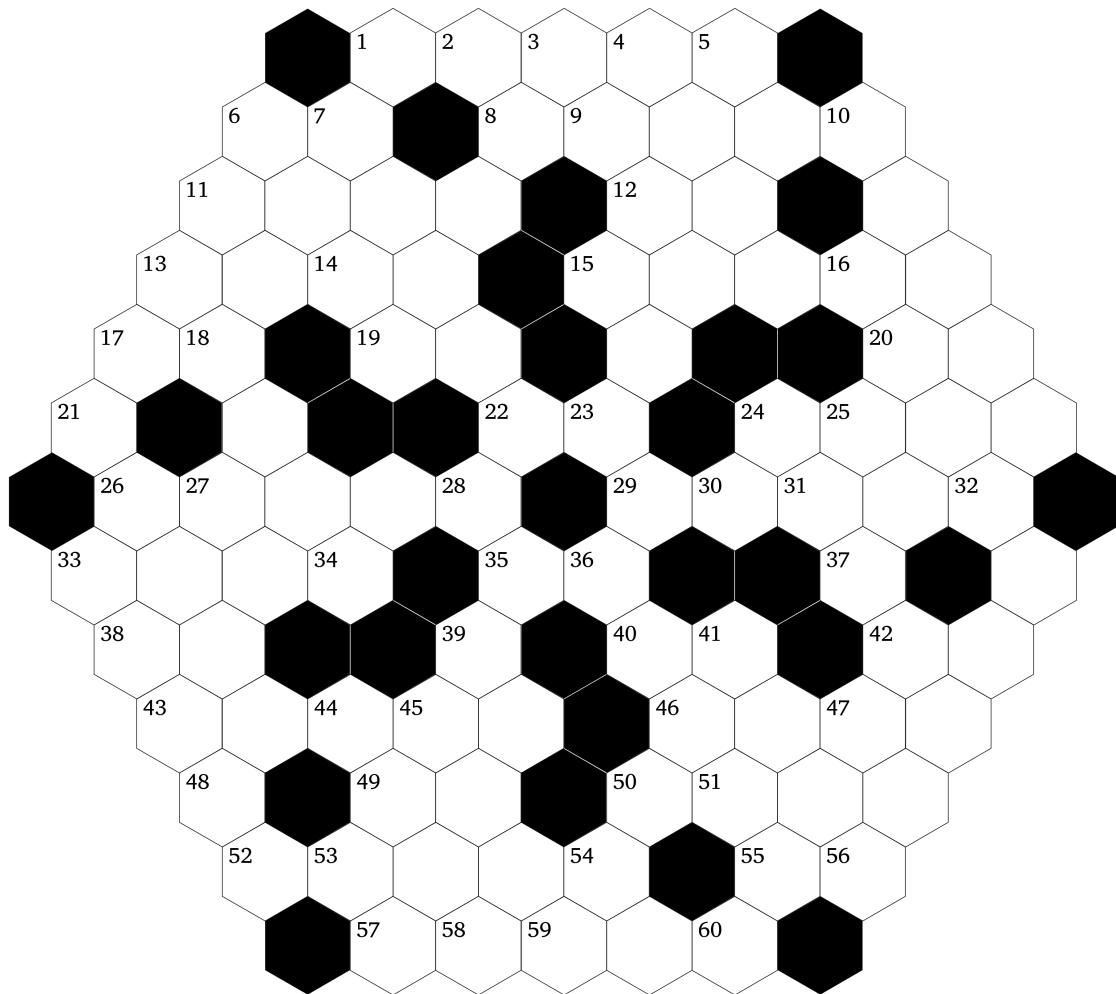
- 30 49 down divided by 7 down
- 31 5 down minus 51 down
- 33 4 across minus 40 across
- 34 23 up plus 41 up
- 36 18 across minus 8 up
- 38 33 across minus 14 down
- 39 32 across times 23 down
- 40 9 across minus 10 up
- 41 8 up plus 2 across
- 43 Nine thousand thirty-one more than 29 across
- 45 58 up plus 23 up
- 46 54 down minus 32 across
- 49 37 across minus 57 up
- 57 4 down plus 33 down
- 58 30 up minus 2 across
- 60 27 up minus 2 across
- 61 4 across plus 33 down
- 62 A square
- 63 Mean of 22 across and 6 up
- 64 Twenty-six times a prime number

Down (continued)

- 19 5 down minus 31 down
- 20 27 down minus 4 across
- 21 Mean of 1 across and 28 across
- 22 Four times a prime number
- 23 2 down minus 14 up
- 25 Mean of 31 up and 17 up
- 27 Nine times a prime number
- 30 51 down plus 49 up
- 31 21 down plus 23 up
- 33 5 down plus 31 up

- 34 Same as 50 across
- 43 19 down plus 13 across
- 45 22 across minus half of 31 up
- 47 Sixteen times a prime number
- 49 Seventy-two times a prime number
- 51 Mean of 61 across and 32 across
- 52 Mean of 23 up and 60 up
- 53 41 up plus 59 across
- 54 1 across plus 31 down
- 56 Mean of 35 across and 34 up

Puzzle 16



Across

- 1 Four times a prime number
 6 55 across minus 17 across
 8 4 down times 42 across
 11 Half of 15 up, then subtract 44 down
 12 Mean of 39 down and 28 down
 13 21 up divided by 23 down
 15 Nine thousand eight hundred twenty-one more than 56 up
 17 Half of 6 across, then subtract 34 up

Up

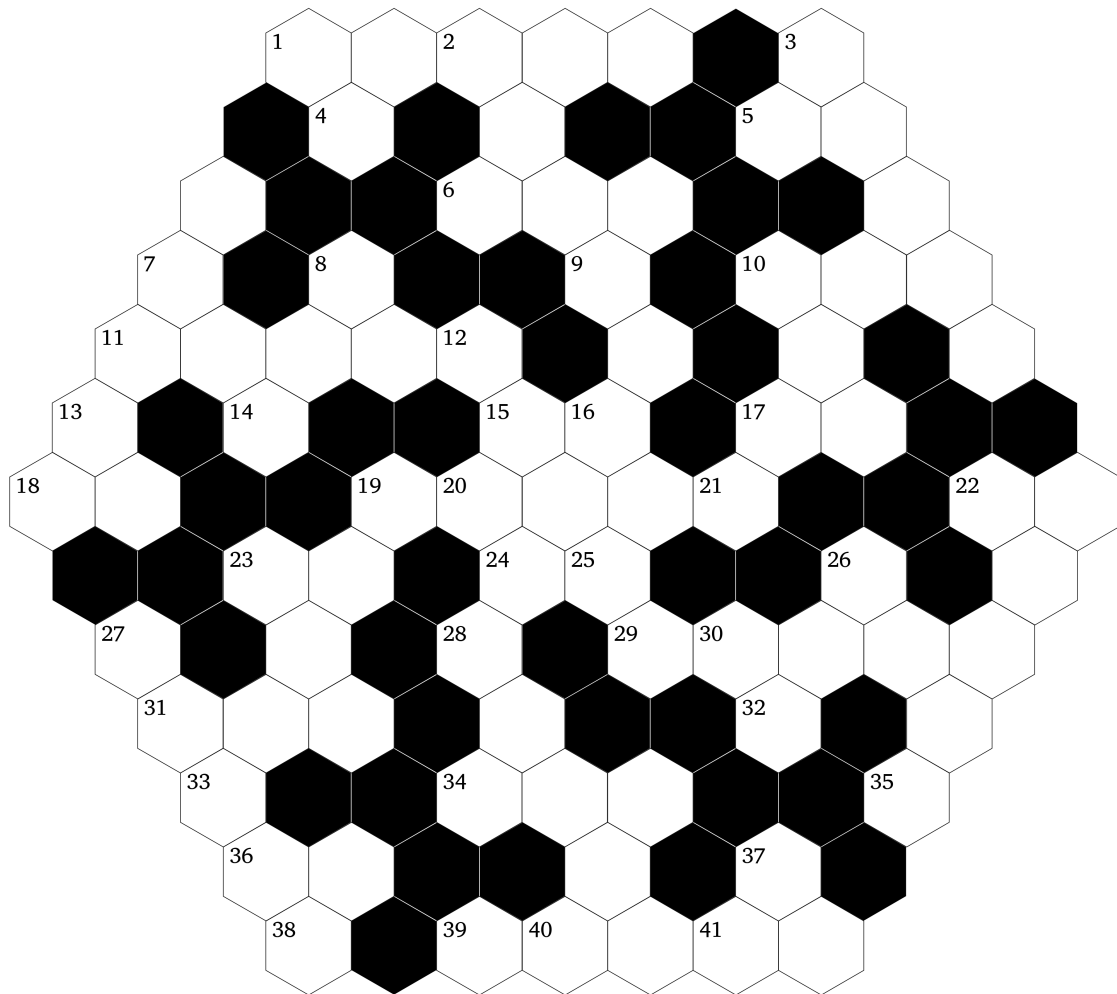
- 9 48 up plus 19 across
 14 15 down minus 36 up
 15 First three digits are the same as first three digits of 21 down
 16 A square
 18 Its digits total 2 down
 19 Sixty-four times a prime number
 21 13 across times 51 up
 23 33 down minus 46 across

Down

- 2 35 across minus 16 up
 3 One thousand six hundred sixty-seven less than 15 up
 4 43 up minus 49 across
 5 A cube
 6 Rearranged digits of 38 up
 7 Two thousand one hundred fifty less than 59 up
 10 24 down minus 36 up
 11 50 across minus 24 across

Across (continued)	Up (continued)	Down (continued)
19 A square	28 6 across plus 39 down	13 A prime number
20 Mean of 19 across and 12 across	30 54 down plus half of 19 across	15 55 across plus 2 down
22 Mean of 48 up and 51 up	31 Twenty-three times a prime number	16 Twelve thousand six hundred sixty-one more than 13 down
24 A prime number	32 38 across minus 17 across	21 Last two digits are the same as 49 across
26 19 up minus 55 across	33 Mean of 5 down and 53 down	23 30 up minus 32 up
29 A prime number	34 55 across minus 27 down	24 Seventeen thousand one hundred nine less than 21 up
33 Sixty-three times a prime number	36 Mean of 30 up and 11 down	25 58 up minus 14 up
35 28 down minus half of 33 up	37 Twice a prime number	27 5 down plus 33 up
38 Four times 2 down	38 Twice the result of 37 up plus 40 across	28 6 across plus 58 up
40 53 down reversed	43 27 down times 5 down	33 A prime number
42 39 down minus 11 down	48 43 up divided by 27 down	36 Twenty-eight times a prime number
43 Fifty-four times a prime number	51 33 up minus 25 down	39 32 up minus 14 up
46 One thousand one hundred eighty more than 38 up	53 One thousand five hundred twenty-six more than 1 across	41 Nine times a prime number
49 35 across minus 39 down	56 Forty-two times a prime number	44 27 down plus 43 up
50 Five times a prime number	57 Twice a prime number	45 16 down divided by 39 down
52 Five times a prime number	58 Mean of 14 up and 36 up	47 Mean of 33 up and 58 up
55 40 across plus 51 up	59 Four times a prime number	53 Half of 28 up, then subtract 22 across
57 A prime number	60 A prime number	54 28 up minus 39 down

Puzzle 17



Across

- 1 Four thousand two hundred sixteen less than 12 down
 5 Mean of 8 down and 20 up
 6 Mean of 10 across and 10 down
 10 1 down plus 22 down
 11 Twelve times a prime number
 15 A square
 17 Mean of 30 down and 18 across
 18 Mean of 8 down and 30 down
 19 One thousand five hundred twenty-three more than 39 across

Up

- 4 Half of 1 across, then subtract 11 across
 5 Mean of 34 up and 10 across
 6 37 down plus 10 across
 9 Mean of 37 down and 25 up
 14 A prime number
 18 2 down plus 33 up
 20 Mean of 23 across and 20 down
 21 Mean of 3 down and 10 across
 25 16 down divided by three

Down

- 1 17 across minus 24 across
 2 Seventy-six times 14 up
 3 Fifteen times a prime number
 7 23 down minus 18 across
 8 Mean of 10 across and 34 up
 10 18 across plus 23 across
 12 Eleven thousand five hundred eighty-nine less than 3 down
 13 22 across reversed
 16 6 across minus 18 across

Across (continued)

- 22 17 across minus 25 up
- 23 6 up minus 41 up

- 24 38 up minus 30 down
- 29 Twice the result of 28 down plus 30 down
- 31 Mean of 23 down and 24 across

- 34 Thirty-eight times a prime number

- 36 34 across minus 26 down
- 39 First three digits are the same as 6 up

Up (continued)

- 28 Mean of 27 down and 10 down
- 32 Half of 40 up, then subtract 22 down
- 33 A prime number
- 34 Mean of 20 up and 30 down
- 35 A prime number
- 38 Mean of 10 across and 4 up
- 40 Four times a prime number
- 41 10 down minus 20 down

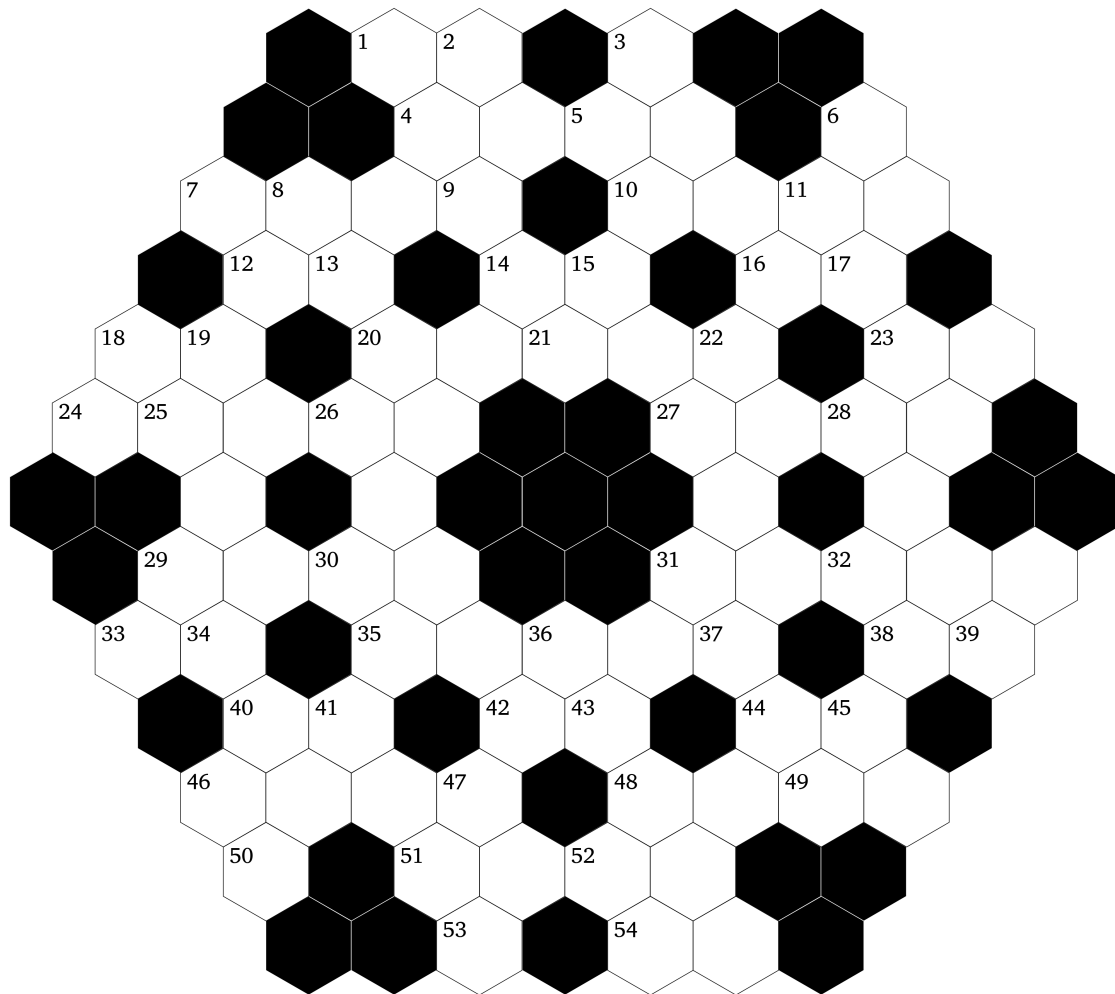
Down (continued)

- 20 Mean of 41 up and 5 up
- 22 36 across reversed

- 23 Rearranged digits of 26 down
- 26 34 across minus 9 up

- 27 One thousand six hundred twenty-three more than 12 down
- 28 Two thousand nine hundred more than 33 up
- 30 20 up minus 25 up
- 37 Mean of 36 across and 5 across

Puzzle 18



Across

- 1 A square
 4 Eight times a prime number
 7 One thousand nine hundred eleven more than 49 up
 10 Seventeen times a prime number
 12 Mean of 5 down and 2 down
 14 12 across minus 42 across
 16 22 down plus 30 down
 18 24 up reversed
 20 Twice a prime number

Up

- 5 Mean of 54 across and 5 down
 9 Mean of 53 up and 7 down
 13 26 down minus 38 across
 17 Mean of 14 across and 19 down
 21 Four times a prime number
 24 32 down plus 40 across
 25 A prime number
 26 19 down minus 17 up
 27 15 down plus 7 across

Down

- 1 One thousand five hundred thirty-one more than 30 up
 2 6 down plus 14 across
 3 A prime number
 5 46 up plus 52 down
 6 Half of 23 across, then subtract 28 up
 7 46 up plus 45 down
 8 Ten times a prime number
 11 25 up minus 38 across
 15 Fourteen times a prime number

Across (continued)

- 23 Mean of 16 across and 9 up
 24 Twice the result of 43 up minus 54 up
 27 Eighty-four times a prime number
 29 Seventy-four times 46 up
 31 A prime number
 33 39 up minus half of 1 across

 35 3 down plus half of 21 up
 38 40 across plus 47 down
 40 Mean of 17 up and 30 down
 42 52 up minus 44 across

 44 46 up minus 30 down

 46 Seven times a prime number
 48 18 down minus half of 46 down
 51 46 down times 9 up
 54 A square

Up (continued)

- 28 A cube
 30 Twenty-five times a prime number

 32 Mean of 5 down and 3 down
 33 Four times a prime number
 34 14 across minus 33 across
 37 Mean of 22 down and 7 down

 39 Mean of 24 up and 52 up
 43 Twice a prime number
 46 Mean of 37 up and 44 across
 49 Twice the result of 29 down plus 7 down

 50 First three digits are the same as first three digits of 46 across
 51 Three times a prime number
 52 Sum of digits in 20 across
 53 12 across minus 46 up
 54 Three times a prime number

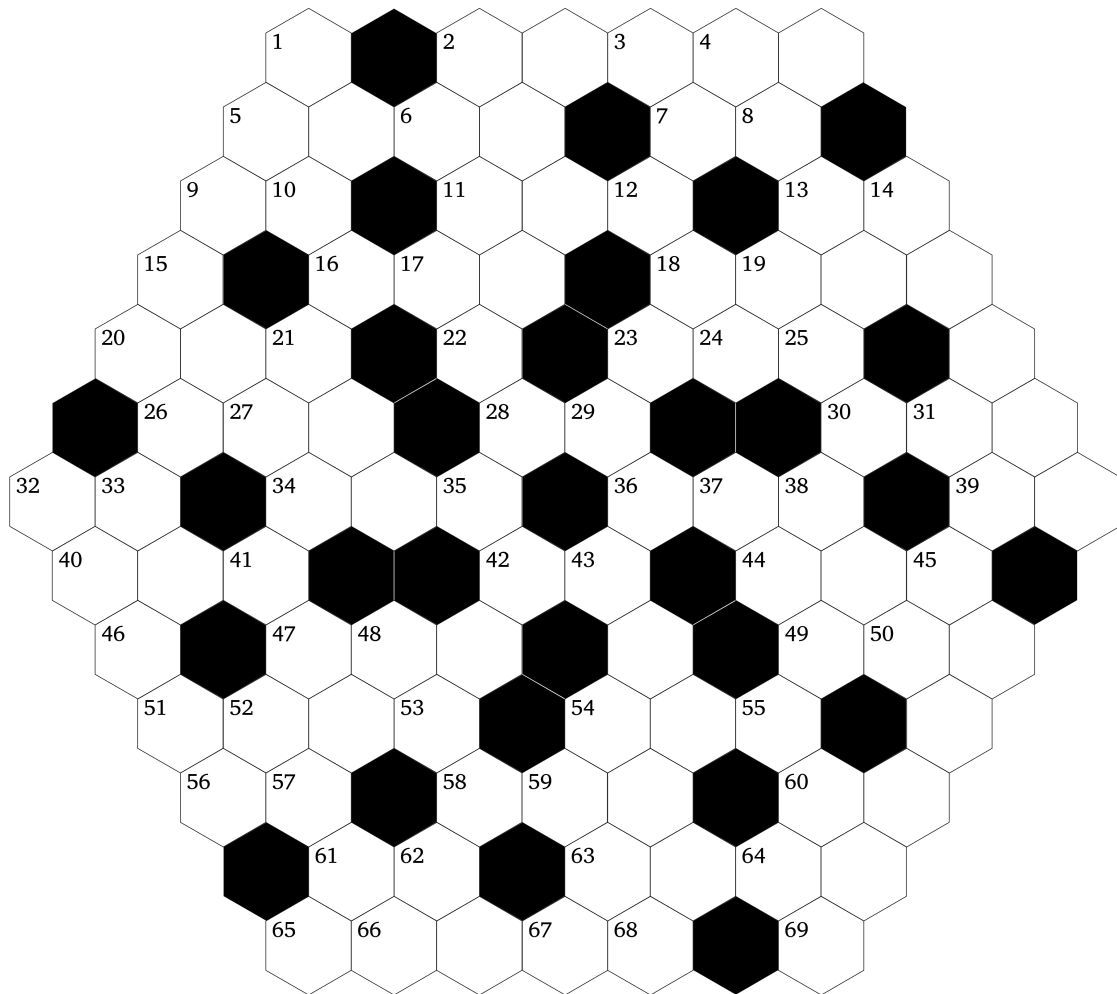
Down (continued)

- 18 Twenty-three times a prime number
 19 6 down plus 5 up

 22 Mean of 47 down and 18 across
 26 A palindrome
 28 30 down plus half of 27 across
 29 Seven hundred thirty less than 32 up
 30 39 up minus 52 down
 31 Thirty-six times a prime number
 32 Half of 23 across
 36 Twenty-three thousand two hundred fifteen more than 20 across
 41 26 up times 22 down

 45 5 up minus 1 across
 46 30 down plus 34 up
 47 24 up minus 9 up
 52 Mean of 33 across and 42 across

Puzzle 19



Across

- 2 20 across times 32 across
- 5 Eleven times a prime number
- 7 55 down minus 23 across
- 9 16 across minus 7 across
- 11 Mean of 33 down and 19 down
- 13 41 up minus 22 up

- 16 19 down minus 43 down
- 18 Mean of 16 across and 63 across
- 20 54 across plus 56 across
- 23 Mean of 58 across and 28 across
- 26 8 up plus 55 up

Up

- 6 Sum of digits in 32 down
- 8 65 up minus 35 up
- 10 9 across minus 45 down
- 12 13 across plus 36 across
- 17 67 up minus 42 across
- 20 First two digits are the same as 31 down

- 22 41 up minus 35 down
- 24 26 across plus 47 across
- 25 57 up minus 20 down
- 27 Mean of 55 up and 12 down
- 29 Mean of 24 up and 56 up

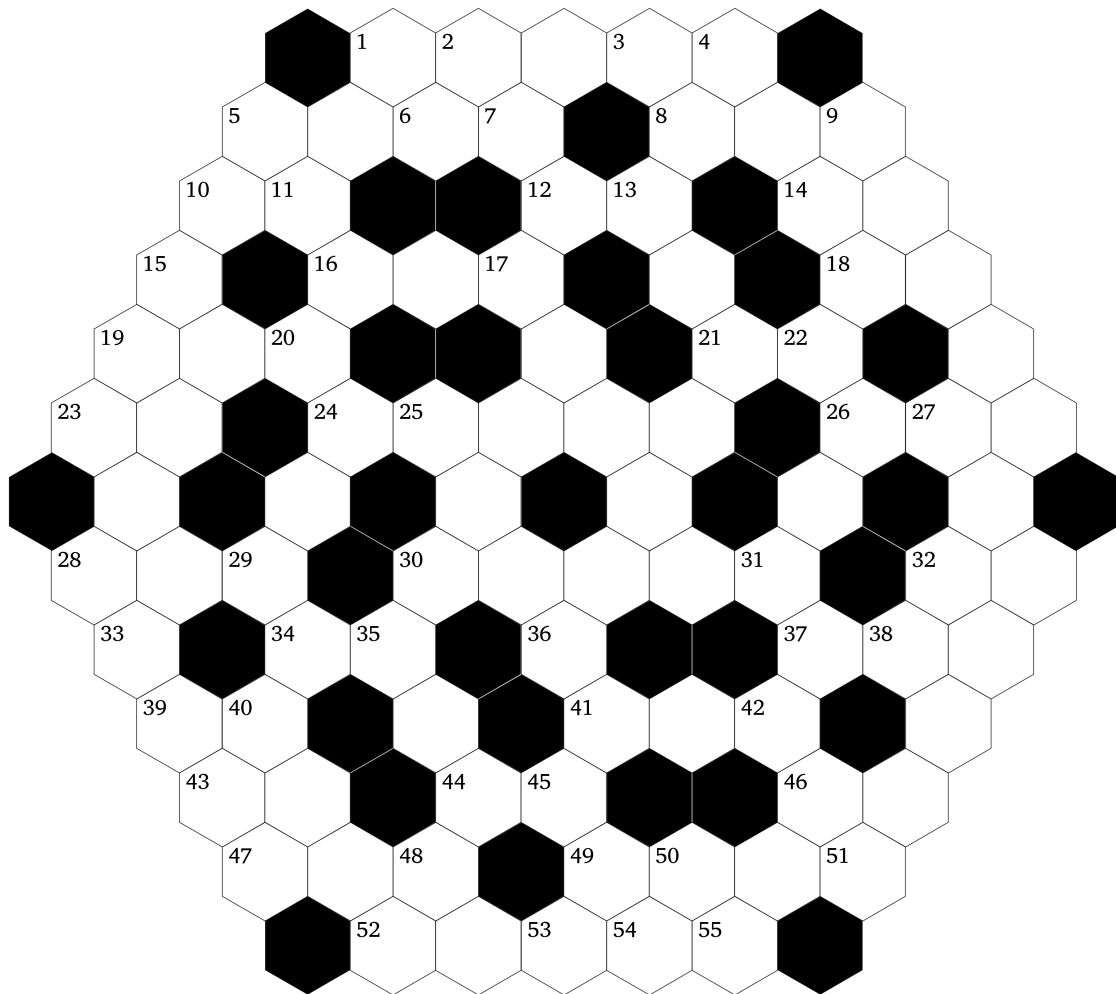
Down

- 1 16 across minus 21 down
- 2 A prime number
- 3 Mean of 31 down and 29 down
- 4 40 up plus 36 across
- 5 33 down plus 65 up
- 6 Mean of 62 down and 54 down

- 12 20 across minus 59 down
- 14 A prime number
- 15 49 across plus 22 up
- 17 Seventy-one times 35 up
- 19 27 up plus 36 across

Across (continued)	Up (continued)	Down (continued)
28 12 up minus 53 up	31 Two-fifths of 59 down	20 41 up minus 41 down
30 41 down plus half of 31 up	35 41 up minus 22 up	21 31 down plus 56 across
32 Mean of 39 across and 56 across	40 Twice the result of 18 across plus 44 across	29 65 across divided by 56 up
34 43 down plus 61 across	41 Twice the result of 12 up minus 5 down	31 46 up minus 35 down
36 A prime number	43 4 down divided by ninety-nine	32 Fifty-one times a prime number
39 Half of 26 across, then subtract 59 down	44 41 up plus 7 across	33 43 down minus 40 across
40 22 up minus 59 down	46 Mean of 65 up and 43 up	35 56 across minus 3 down
42 55 down divided by fourteen	50 Twenty-eight times a prime number	37 43 down minus 13 across
44 55 down plus 29 up	53 11 across plus half of 46 up	38 54 down times 13 across
47 6 down minus 35 down	55 41 down minus 11 across	41 37 down plus 64 down
49 Six times 59 up	56 34 across minus 23 across	43 44 up minus 23 across
51 Five times a prime number	57 Twice the result of 27 up plus 45 down	45 21 down minus 9 across
54 Mean of 2 down and 41 down	59 66 up minus 55 down	48 Mean of 29 down and 41 down
56 13 across plus 3 down	64 62 down plus half of 64 down	52 Twice a prime number
58 Mean of 31 down and 36 across	65 32 across plus 13 across	54 17 down minus 7 across
60 Mean of 68 up and 65 up	66 9 across plus 58 across	55 59 up plus 61 across
61 65 up plus 64 down	67 Seventy-seven less than 38 down	59 55 up minus 5 down
63 Four times a prime number	68 1 down plus 62 down	62 33 down minus 20 down
65 Seventy-five times a prime number	69 54 across times 1 down	64 22 up minus 25 up

Puzzle 20



Across

- 1 Fourteen times a prime number
- 5 Seventy-two times 42 up
- 8 19 down plus 37 across
- 10 32 across plus 12 across
- 12 41 across divided by eighteen
- 14 48 down plus 23 across
- 16 35 up divided by 17 up
- 18 19 down minus 47 up
- 19 42 down minus 17 up

Up

- 6 Mean of 7 up and 42 up
- 7 17 up minus 32 down
- 11 26 across minus 46 across
- 13 35 down plus 21 across
- 14 Mean of 42 up and 34 across
- 17 Mean of 20 up and 19 down
- 20 39 across minus 23 across
- 22 42 up plus 38 down
- 23 First two digits are the same as 3 down

Down

- 1 A square
- 2 24 across divided by 44 across
- 3 49 across divided by 33 up
- 4 Seventy-seven times a prime number
- 5 26 across plus 20 down
- 9 First three digits are the same as 43 up
- 13 39 across plus 42 up
- 15 Square root of 27 down
- 17 52 across minus 36 up

Across (continued)

- 21 38 down minus 1 down
 23 50 down minus 18 across
 24 29 up times 44 across
 26 47 across minus 7 up
 28 Mean of 23 down and 7 up
 30 Fifteen times a prime number
 32 Mean of 22 down and 15 down
 34 55 up minus 31 down
 37 29 up plus 54 up
 39 20 down plus 23 across
 41 Twice the result of 35 down plus 22 down
 43 22 up minus 12 across
 44 14 up minus 48 down
 46 Mean of 43 across and 54 up
 47 29 up plus 27 up
 49 Thirty-eight times a prime number
 52 A prime number

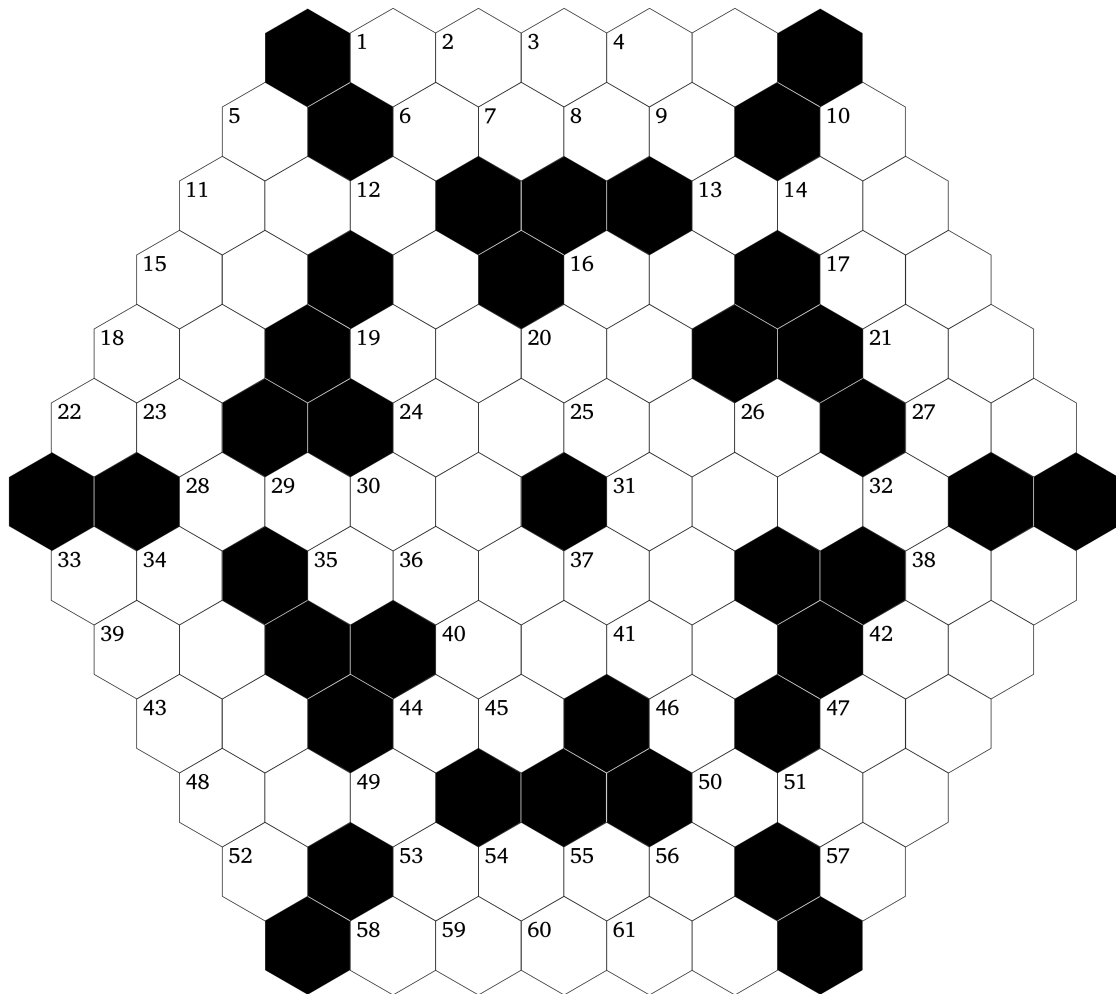
Up (continued)

- 27 13 down minus 55 up
 28 43 up plus 45 up
 29 23 across plus 26 across
 31 5 down minus 6 up
 33 Mean of 46 across and 7 up
 35 Sixty-two times a square
 36 A prime number
 38 Twenty times a prime number
 42 25 down minus 23 up
 43 4 down minus half of 5 across
 45 Mean of 14 up and 31 down
 47 Mean of 31 down and 29 down
 51 Thirteen thousand two hundred seven less than 52 across
 52 A prime number
 53 28 across minus 14 across
 54 37 across minus 2 down
 55 6 up plus 19 down

Down (continued)

- 19 22 up minus 23 across
 20 Mean of 32 down and 33 up
 22 A square
 23 16 across plus 50 down
 25 First two digits are the same as 3 down
 27 A square
 28 First two digits are the same as 22 down
 29 47 across minus 31 up
 31 45 up minus 1 down
 32 21 across plus half of 15 down
 35 46 across plus 14 across
 38 Half of 53 up, then subtract 18 across
 40 Twice a prime number
 42 43 up minus 47 up
 45 45 up plus 47 across
 48 45 down divided by 32 across
 50 32 across plus 44 across

Puzzle 21



Across

- 1 Two thousand eight hundred eighty-one more than 57 up
- 6 Eighty-seven times a prime number
- 11 Mean of 50 across and 22 across
- 13 55 down plus 59 up
- 15 Mean of 5 down and 51 down
- 16 38 across plus 43 across
- 17 Mean of 15 down and 26 down
- 18 57 up divided by 23 up
- 19 Mean of 44 across and 40 across
- 21 42 down minus 18 across
- 22 54 down minus 26 down

Up

- 7 16 across minus 22 across
- 8 51 down minus 33 across
- 9 Three-fifths of 17 up
- 12 A prime number
- 14 53 across divided by 56 down
- 17 54 down minus 33 across
- 19 32 down minus 47 across
- 21 Mean of 9 up and 44 across
- 22 Twice a prime number
- 23 57 up divided by 21 up
- 25 Mean of 7 up and 14 down

Down

- 1 Mean of 33 across and 39 up
- 2 21 across minus 33 across
- 3 42 across minus 21 up
- 4 32 up plus 17 up
- 5 40 across minus 31 across
- 10 36 up plus 35 up
- 11 Mean of 9 up and 22 across
- 12 Twenty-nine times 11 across
- 14 34 down plus 27 across
- 15 57 up divided by 23 up
- 16 61 up times 38 across

Across (continued)

- 24 Thirteen thousand five hundred sixty-six more than 35 across
 27 Mean of 39 up and 15 across
 28 Mean of 41 up and 4 down
 31 Three times a prime number
 33 43 up minus 60 up
 35 Fifteen times a prime number
 38 Same as 39 across
 39 18 across minus 22 across
 40 Twice a prime number
 42 A square
 43 Twice 15 across
 44 Mean of 17 across and 16 across
 47 51 down plus 55 down
 48 6 across minus 53 across
 50 49 down minus 19 up
 53 14 up times 1 down
 58 Twice the result of 33 down plus 20 down

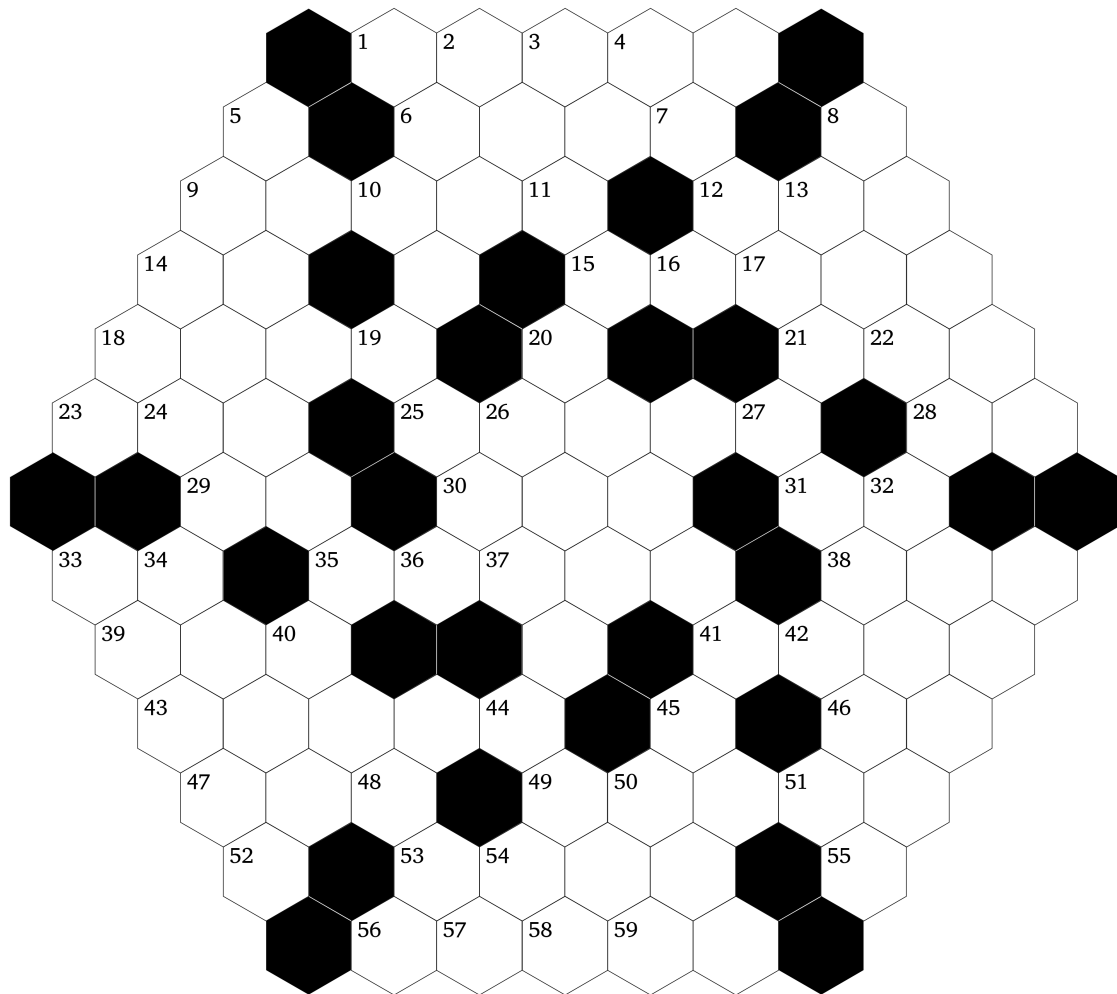
Up (continued)

- 32 2 down plus 11 across
 35 Nineteen times a prime number
 36 Twenty-six times a prime number
 39 Mean of 48 across and 7 up
 41 Seventeen times a prime number
 43 59 up minus 9 up
 45 A prime number
 46 Sum of digits in 51 up
 48 Mean of 33 across and 21 up
 49 Twenty-eight times a prime number
 51 7 up times 5 down
 52 Twice the result of 56 down minus 15 across
 57 Thirty-three times a prime number
 58 21 up plus 39 across
 59 17 up plus 7 up
 60 18 across plus 17 across
 61 16 down divided by 39 across

Down (continued)

- 18 35 across minus 1 across
 19 Three times a prime number
 20 First two digits are the same as 9 up
 26 Mean of 33 across and 38 across
 29 42 across plus 48 up
 30 Seventy-three times 47 down
 32 47 across plus 17 up
 33 36 up plus 4 down
 34 Eight times a prime number
 37 Six hundred eighteen less than 31 across
 42 A square
 47 59 up plus 33 across
 49 50 across plus 17 up
 51 A cube
 54 Mean of 17 across and 5 down
 55 Mean of 7 up and 43 up
 56 Mean of 46 up and 13 across

Puzzle 22



Across

- 1 Twenty-one times a prime number
- 6 A prime number
- 9 8 down plus half of 32 down
- 12 21 across plus 33 across
- 14 33 across reversed
- 15 19 up minus 58 up

- 18 A square
- 21 32 down minus 3 down
- 23 A prime number
- 25 Sixteen thousand six more than 19 up

Up

- 7 26 down minus 52 up
- 10 Mean of 5 down and 21 across
- 11 Same as 18 down
- 16 38 across minus 52 up
- 17 51 down plus 32 down
- 19 Twenty thousand seventy-five less than 56 across
- 22 Mean of 56 up and 5 down
- 23 Sixty-five times a prime number
- 24 A prime number
- 27 Fifty-eight times a prime number

Down

- 1 A prime number
- 2 Four times a prime number
- 3 51 down minus 29 across
- 4 Twenty-three times a prime number
- 5 Mean of 16 up and 14 across
- 8 Five times a prime number

- 9 42 down plus half of 14 across
- 10 A square
- 13 Forty-six times a prime number
- 14 Mean of 19 down and 44 up

Across (continued)

- 28 52 up minus 30 across
 29 28 across minus 45 down
 30 25 across divided by 23 across
 31 39 across divided by 10 down
 33 31 across plus 10 down
 35 Consecutive digits unordered
 38 Mean of 37 up and 50 down
 39 10 down times 43 up
 41 Twice a prime number
 43 51 up plus 57 up
 46 48 up minus 5 down
 47 A prime number
 49 Seven times a prime number
 53 1 across minus 20 down
 56 Four thousand sixty-nine more than 25 across

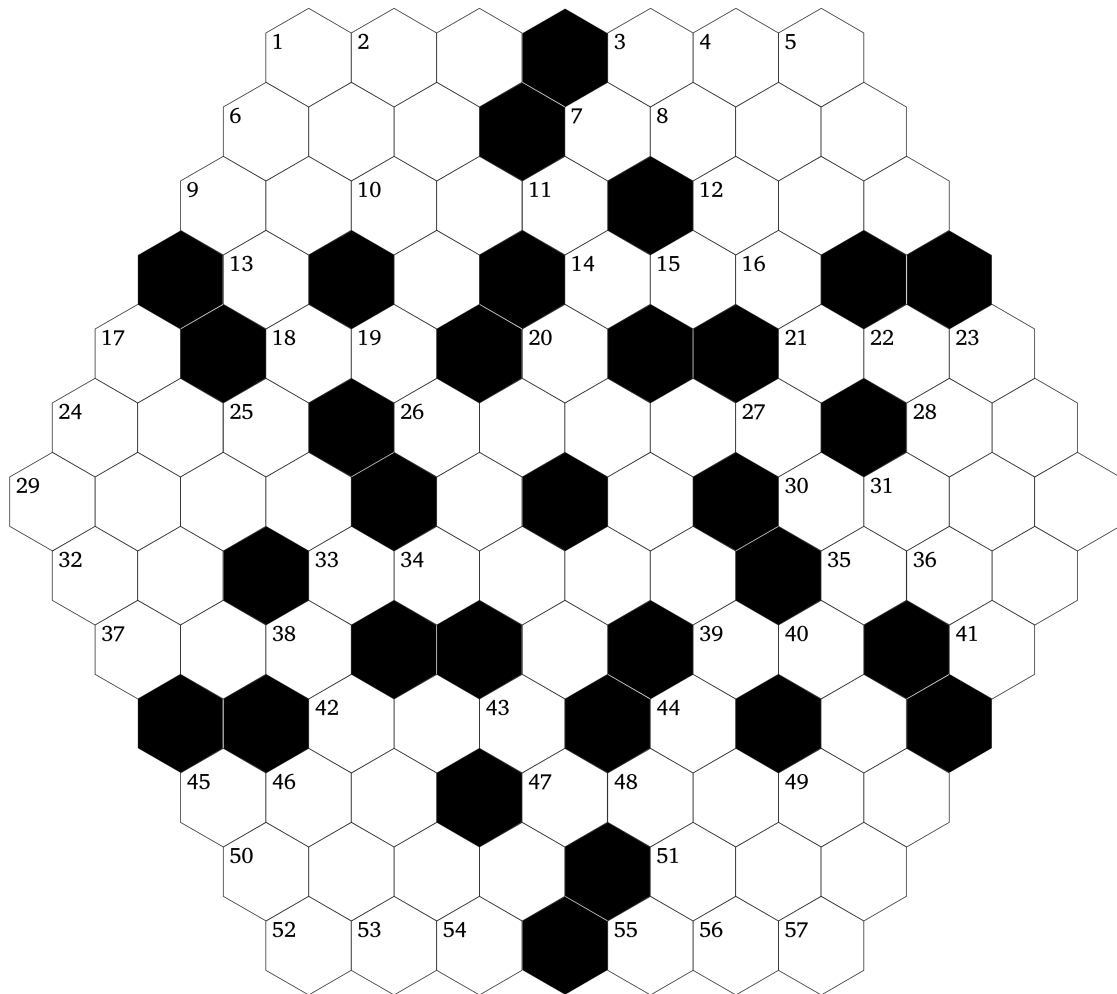
Up (continued)

- 36 Three thousand five hundred forty-nine more than 14 down
 37 A prime number
 39 A prime number
 42 6 across times 46 across
 43 48 up minus 54 down
 44 Forty-three times a prime number
 47 Seventy-five times 33 across
 48 Twice the result of 18 down minus 59 up
 51 One thousand five hundred twenty-four more than 34 down
 52 42 down minus 16 up
 55 Forty-one times a prime number
 56 A square
 57 Twice a prime number
 58 A prime number
 59 Forty-six less than 52 up

Down (continued)

- 18 Mean of 10 down and 17 up
 19 A prime number
 20 Eleven times a prime number
 26 Thirty-two more than 18 down
 27 Sixty-one times a prime number
 32 21 across plus 22 up
 33 Twenty-one thousand eighty-seven less than 56 across
 34 Two hundred seventy-one more than 41 across
 40 Seven thousand nine hundred forty-eight less than 20 down
 42 Mean of 37 up and 50 down
 44 Twice a prime number
 45 A prime number
 50 A prime number
 51 A prime number
 54 48 up minus 31 across

Puzzle 23



Across

- 1 Mean of 43 down and 36 up
- 3 45 down minus 55 across
- 6 Twice the result of 12 across minus 17 down
- 7 42 across times 27 up
- 9 Last three digits are the same as 16 up
- 12 32 across plus 51 across
- 14 40 down plus half of 3 across
- 18 43 down plus 53 up
- 21 A cube
- 24 45 down reversed

Up

- 8 12 across minus 55 up
- 9 A square
- 10 48 down minus 35 across
- 11 11 down plus 45 down
- 13 Nine hundred eighty-four more than 7 across
- 15 54 up plus 52 across
- 16 Mean of 39 across and 37 across
- 19 Rearranged digits of 50 up
- 27 52 across minus 6 across
- 29 Mean of 48 down and 21 across

Down

- 1 22 down minus 19 up
- 2 23 down minus 11 down
- 3 Seven times a prime number
- 4 A square
- 5 50 up reversed
- 6 24 across minus 29 down
- 9 Mean of 35 across and 53 up
- 11 51 across divided by five
- 17 Mean of 6 across and 10 up
- 19 Eight thousand eight hundred thirty-nine more than 40 up

Across (continued)

- 26 37 up plus 57 up
 28 Mean of 39 across and 38 up
 29 Nine times a prime number
 30 Four times a prime number
 32 52 across minus 35 across
 33 Last two digits are the same as last two digits of 15 up
 35 29 up minus 43 down
 37 27 down plus 10 up
 39 32 up minus 29 down
 42 Mean of 52 across and 11 up
 45 4 down plus 32 across
 47 19 down minus half of 9 across
 50 Ninety-one times a prime number
 51 Mean of 25 down and 39 across
 52 Mean of 6 across and 55 up
 55 Twice the result of 41 up minus 32 up

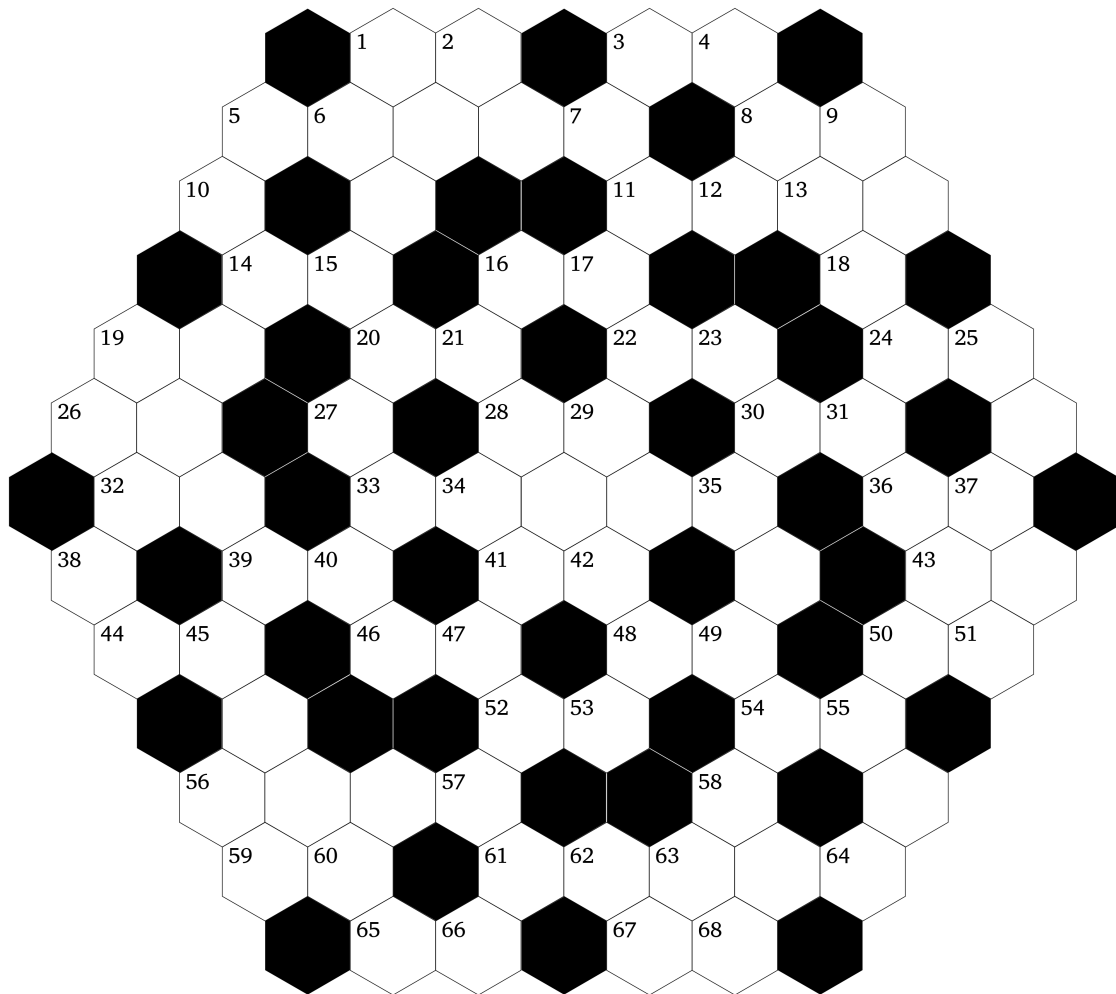
Up (continued)

- 32 Mean of 55 up and 42 across
 34 Sixty-seven times a prime number
 36 29 up plus 21 across
 37 Seven thousand one hundred forty-eight less than 33 across
 38 17 down minus 9 down
 40 Sixty-one times a prime number
 41 Mean of 40 down and 25 down
 43 A prime number
 48 A square
 50 Twice the result of 1 across plus 43 down
 52 Mean of 13 up and 23 down
 53 Three-fifths of 49 down
 54 One-fourth of 30 across
 55 27 up plus 52 across
 56 32 up plus 11 up
 57 41 up plus 28 across

Down (continued)

- 20 Mean of 38 down and 29 across
 22 54 up plus 30 across
 23 17 down plus 43 down
 24 First two digits are the same as first two digits of 55 up
 25 35 across plus 55 across
 27 6 down plus 18 across
 29 48 down minus 11 down
 31 A prime number
 38 Sixty-one times a prime number
 40 41 up minus 49 down
 43 32 across plus 27 up
 44 Eight times a prime number
 45 Twice a prime number
 46 Mean of 23 down and 15 up
 48 16 up plus 21 across
 49 11 down minus 32 across

Puzzle 24



Across

- 1 10 down minus half of 45 up
- 3 Mean of 58 down and 39 across
- 5 Mean of 47 up and 12 up
- 8 Mean of 6 down and 9 down
- 11 Twenty times a prime number
- 14 63 down minus half of 60 up
- 16 37 down plus 25 down
- 19 22 across minus 13 up
- 20 30 across plus 26 down
- 22 66 up plus 46 across

Up

- 6 17 down minus 49 up
- 7 Mean of 22 across and 3 across
- 10 A square
- 12 Mean of 21 up and 6 up
- 13 3 across minus 64 up
- 15 Twice a prime number
- 17 20 across minus 64 up
- 18 Twice the result of 4 down minus 38 up
- 21 26 down plus 42 up
- 26 38 down minus 22 across

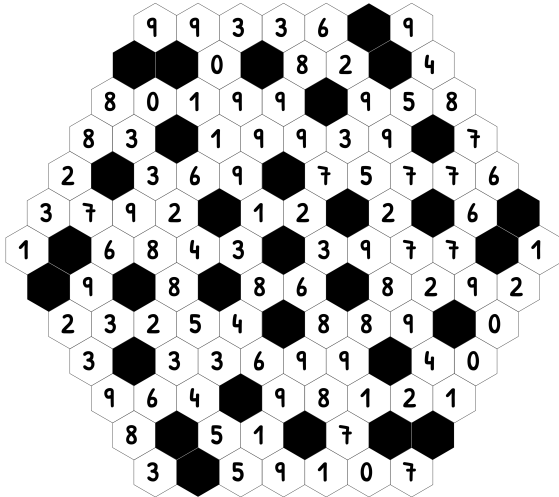
Down

- 1 60 up minus 26 up
- 2 26 across reversed
- 4 First two digits are the same as 31 up
- 6 Mean of 6 up and 21 up
- 7 26 across plus 32 across
- 9 28 across plus 62 down
- 10 49 down plus 23 down
- 15 Mean of 52 across and 45 up
- 17 49 down plus 45 up
- 19 36 across times 47 down

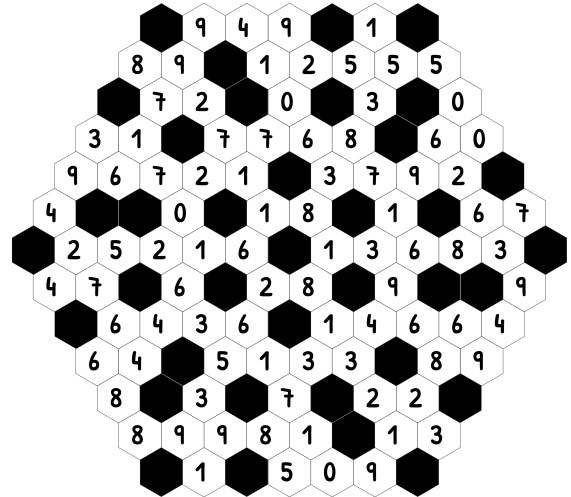
- | Across (continued) | Up (continued) | Down (continued) |
|--|---|---|
| 24 68 up minus 19 across | 27 Mean of 1 across and 52 across | 21 First two digits are the same as 59 across |
| 26 23 down minus 62 down | 31 7 down plus 27 down | 23 47 down minus 59 across |
| 28 Mean of 60 up and 24 across | 34 57 down minus 21 up | 25 24 across reversed |
| 30 49 up plus 45 up | 35 45 up minus 36 across | 26 A square |
| 32 7 down minus 41 across | 38 A prime number | 27 55 down minus 3 across |
| 33 Nineteen times a prime number | 40 32 across minus 13 up | 29 Mean of 54 across and 16 across |
| 36 18 up minus 59 up | 42 Mean of 52 across and 24 across | 31 68 up times 31 up |
| 39 46 across plus half of 49 down | 45 Three-fifths of 18 up | 34 65 across minus 10 up |
| 41 36 across minus 62 down | 47 First two digits are the same as 55 down | 35 1 down minus 52 across |
| 43 62 down minus 40 down | 49 31 up minus 37 down | 37 38 down minus 49 up |
| 44 59 up plus 40 up | 51 22 across minus 24 across | 38 31 down divided by 58 down |
| 46 42 up minus 41 across | 53 Mean of 48 across and 50 across | 40 42 up minus 34 down |
| 48 38 down minus 49 down | 55 Three hundred ninety-eight more than 47 up | 45 Nineteen times a prime number |
| 50 31 up minus 7 down | 56 Half of 57 down, then subtract 26 up | 47 17 down plus 26 across |
| 52 Mean of 34 down and 35 up | 57 Mean of 18 up and 57 down | 49 68 up minus 29 down |
| 54 A square | 59 41 across plus 1 down | 55 45 up plus 36 across |
| 56 67 up minus 44 across | 60 Mean of 9 down and 49 down | 56 28 across minus 27 down |
| 59 8 across minus 14 across | 64 32 across minus 67 across | 57 51 up plus 29 down |
| 61 Last two digits are the same as 48 across | 66 65 across minus 2 down | 58 29 down plus 49 down |
| 65 6 down plus 67 across | 67 Twice a prime number | 62 28 across minus 56 up |
| 67 Mean of 62 down and 59 across | 68 Same as 58 down | 63 62 down plus 26 down |

Solutions

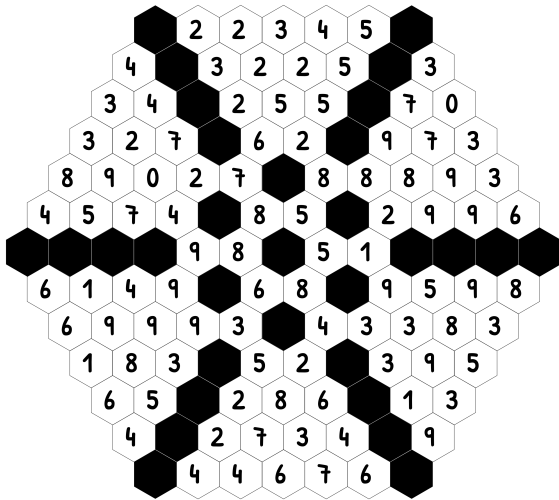
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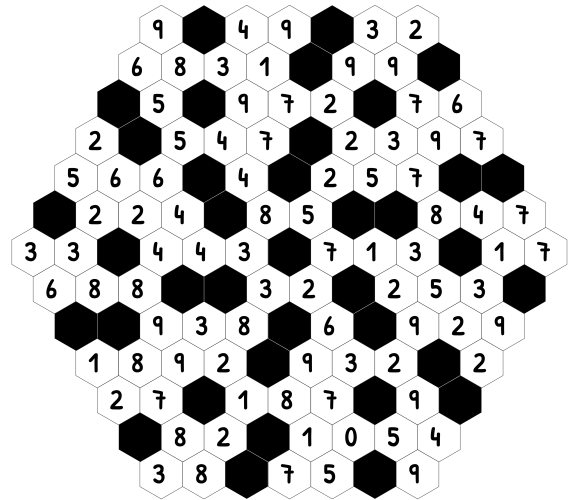
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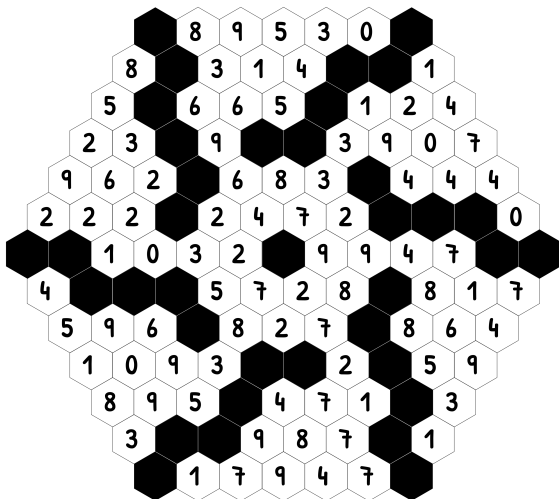
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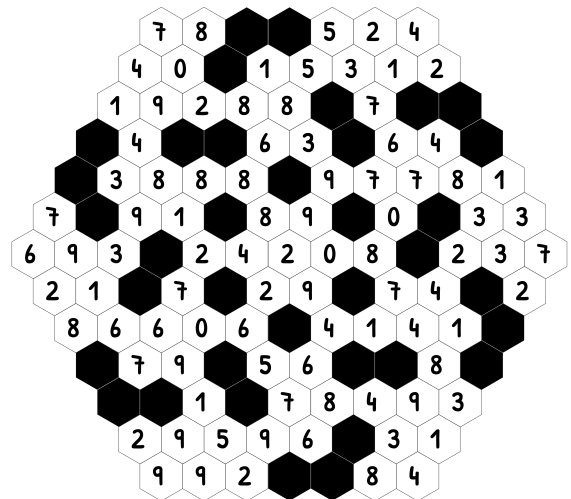
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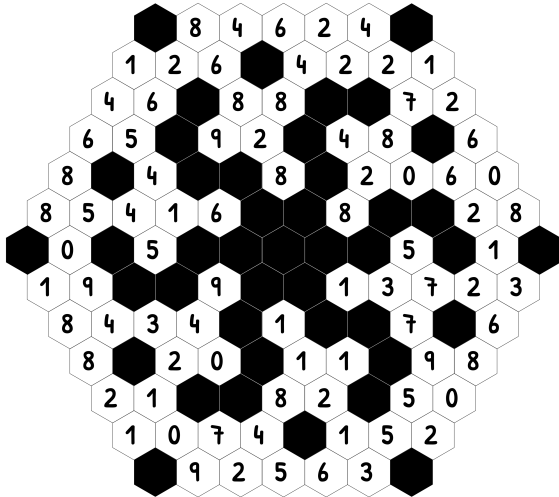
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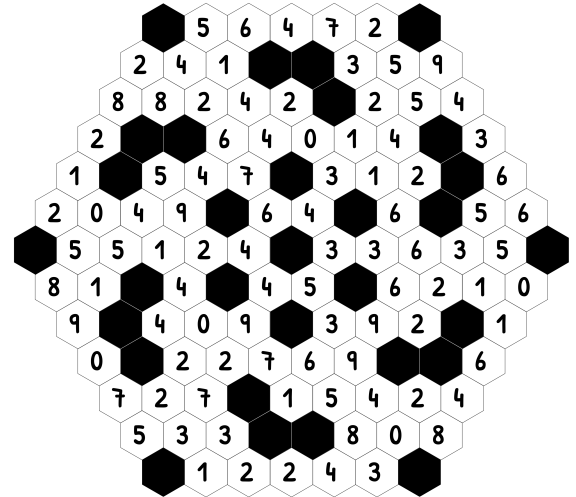
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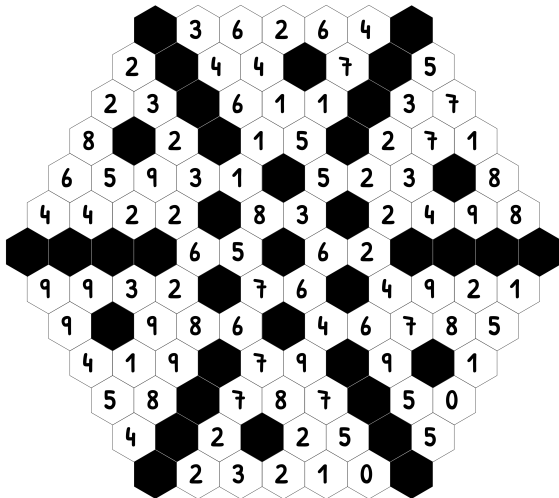
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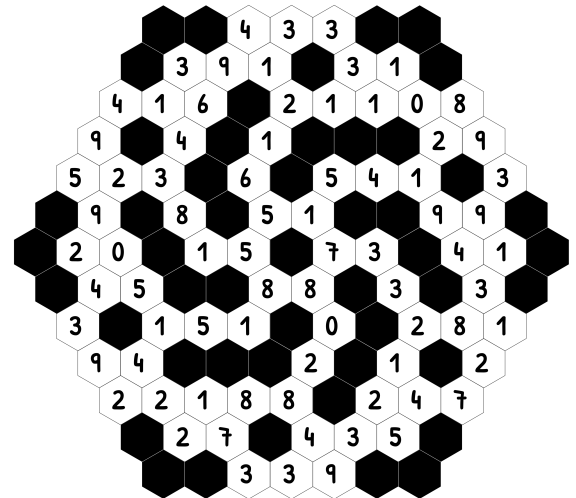
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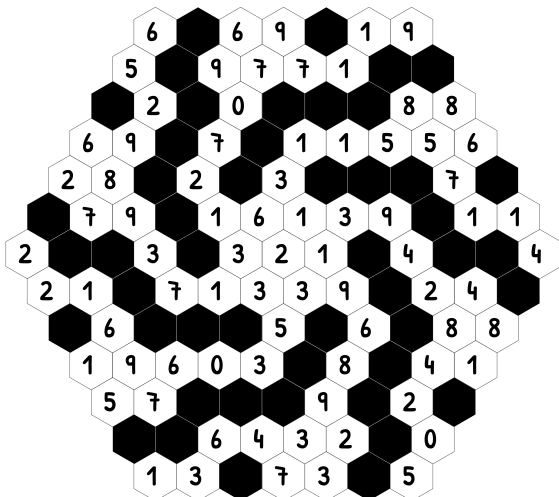
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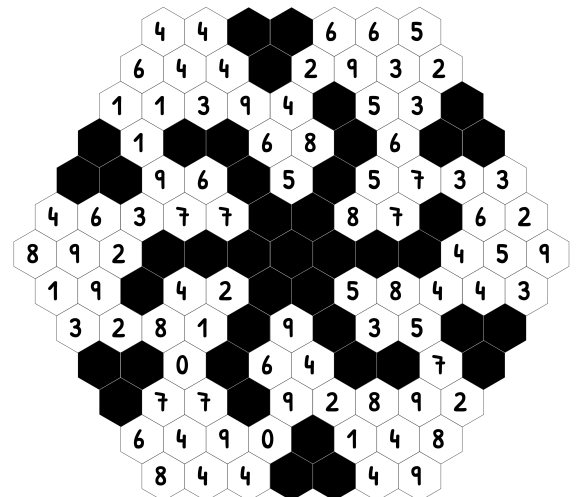
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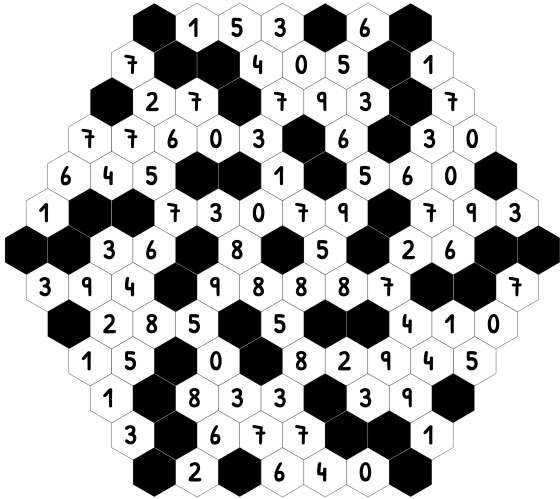
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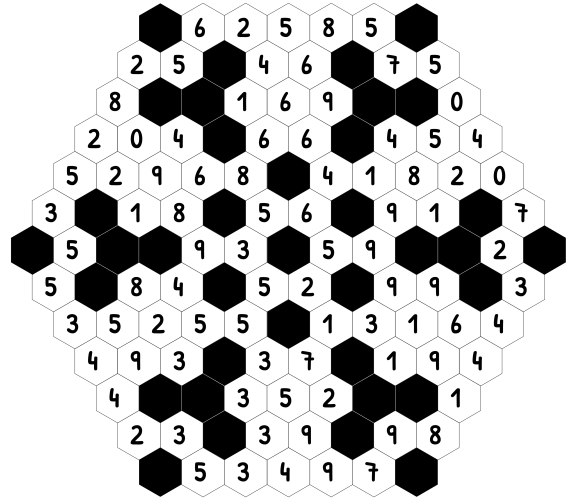
Puzzle 12



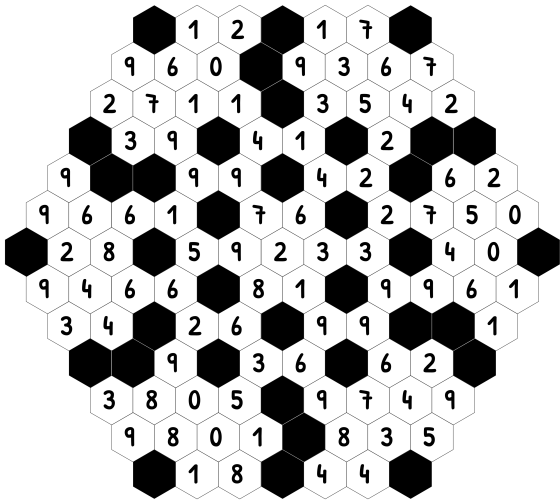
Puzzle 13



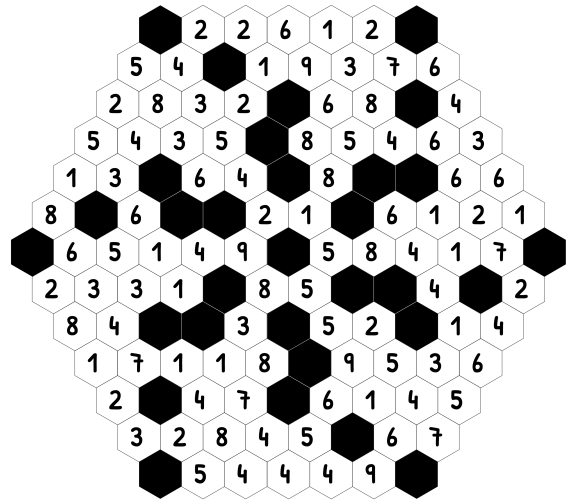
Puzzle 14



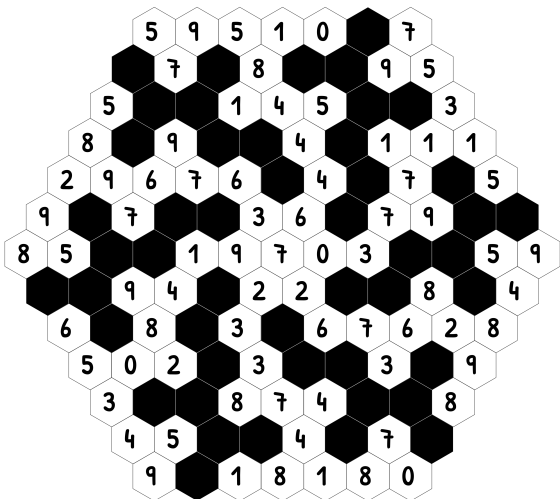
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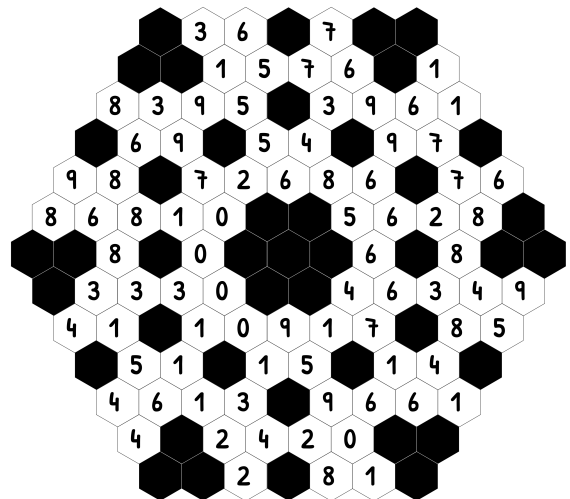
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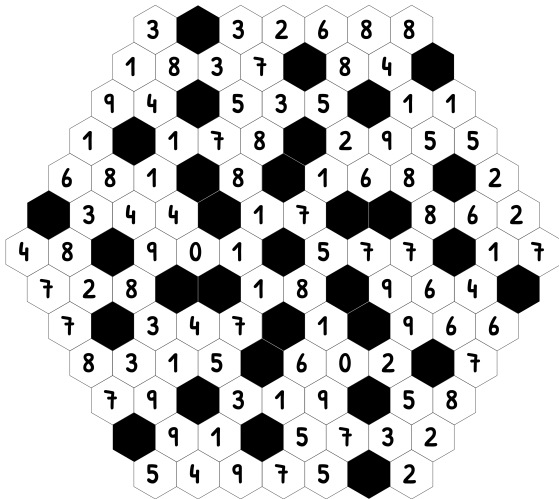
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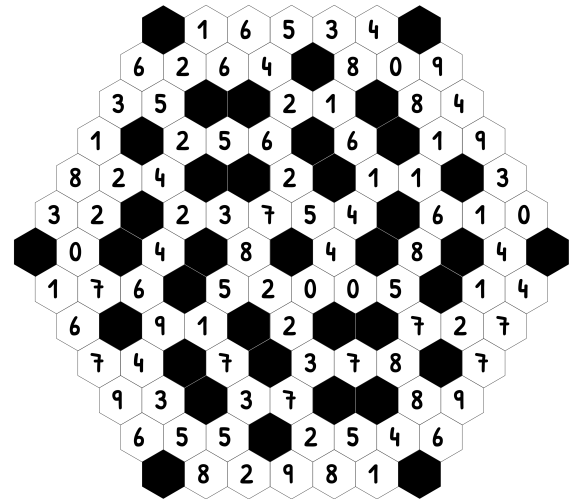
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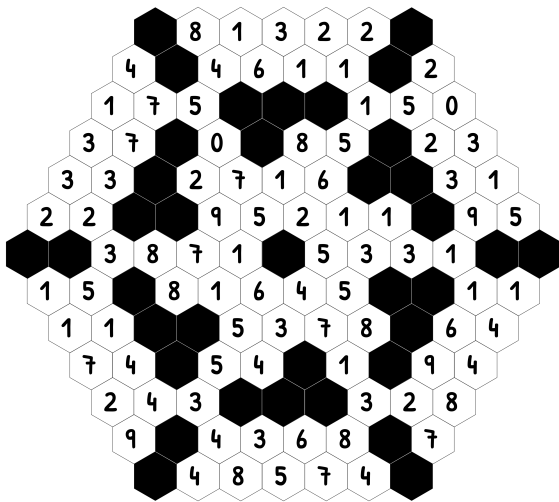
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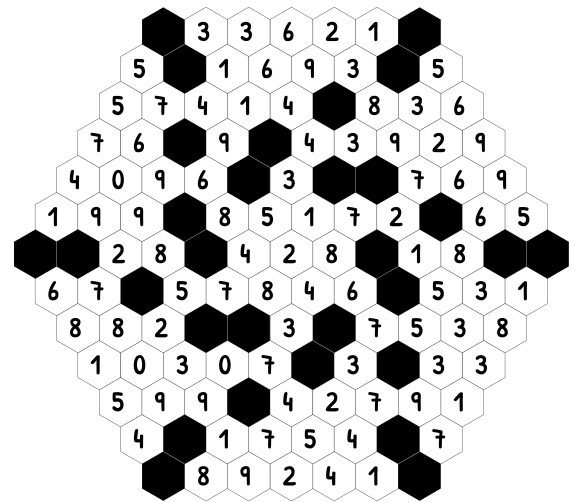
Puzzle 20



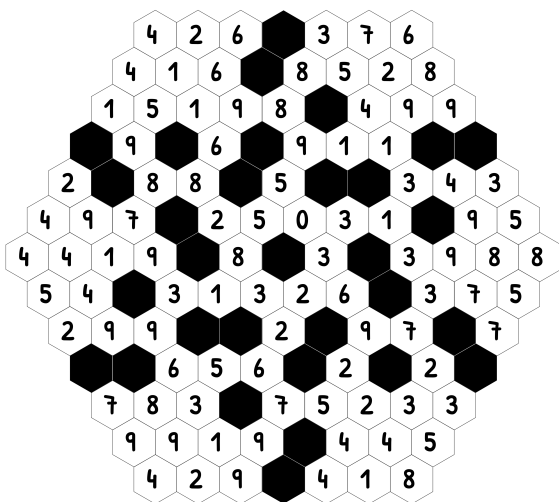
Puzzle 21



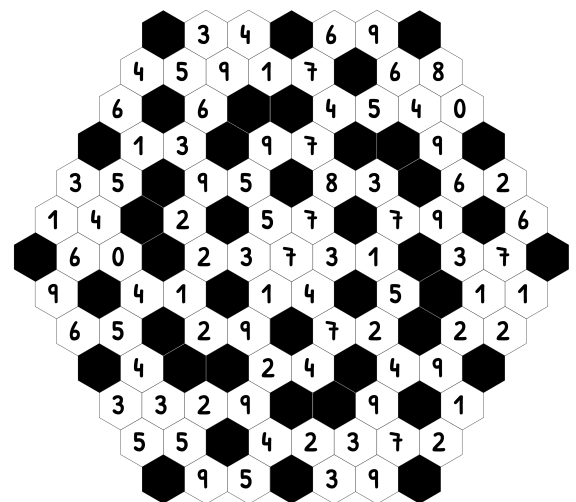
Puzzle 22



Puzzle 23

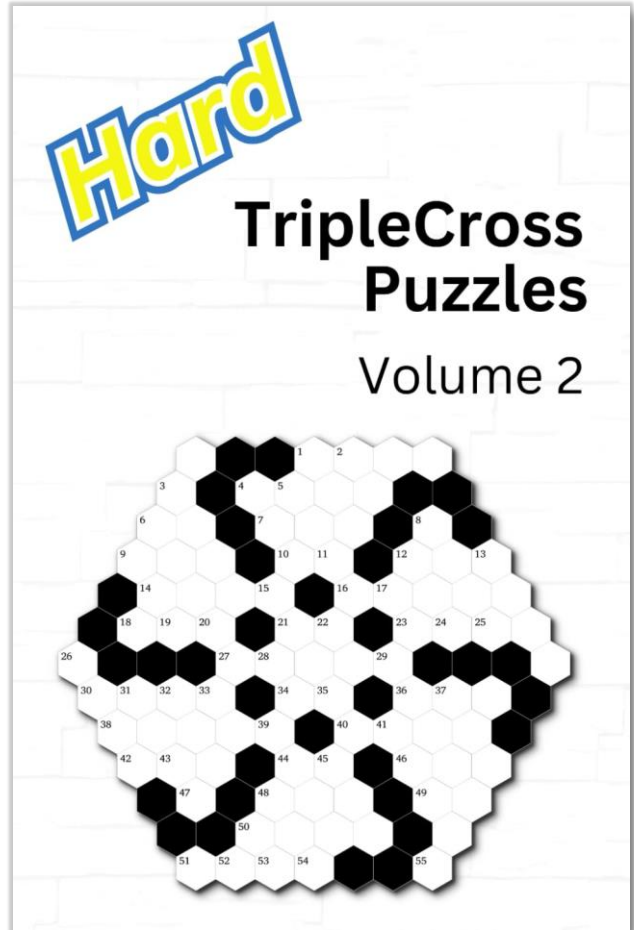
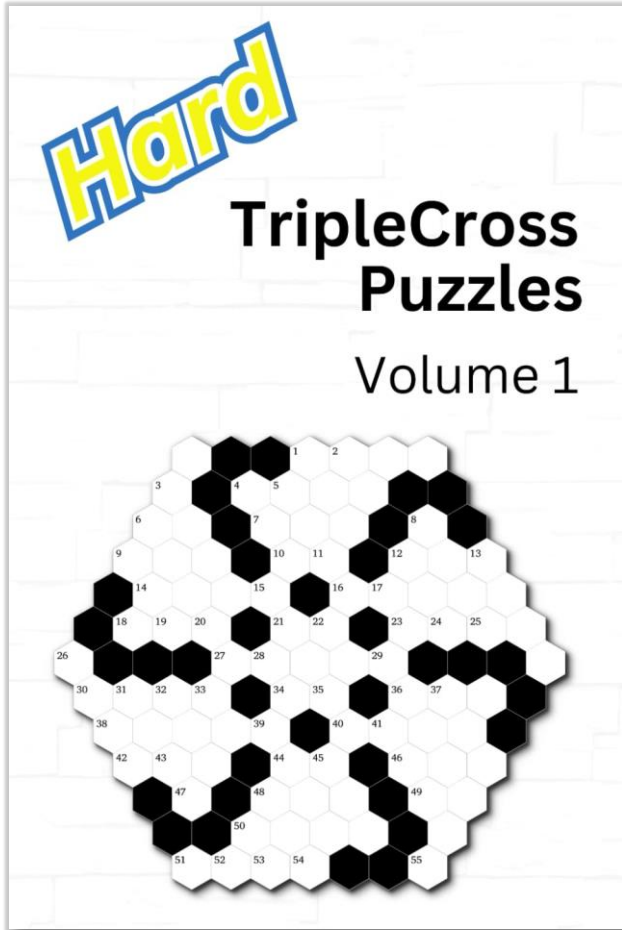


Puzzle 24



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